Exhibit 21

Kevin Holcomb, M.D.

Page 1

IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF NEW JERSEY

- - -

IN RE: JOHNSON & :
JOHNSON TALCUM POWDER :
PRODUCTS MARKETING, :

SALES PRACTICES, AND : NO. 16-2738 PRODUCTS LIABILITY : (FLW) (LHG)

LITIGATION

:

THIS DOCUMENT RELATES : TO ALL CASES :

- - -

March 27, 2019

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Videotaped deposition of KEVIN HOLCOMB, M.D., taken pursuant to notice, was held at Weil Gotshal & Manges, LLP, 767 Fifth Avenue, New York, New York, beginning at 9:53 a.m., on the above date, before Michelle L. Gray, a Registered Professional Reporter, Certified Shorthand Reporter, Certified Realtime Reporter, and Notary Public.

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PageID: 193724 Kevin Holcomb, M.D.

Page 2	Page 4
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1 APPEARANCES: (Cont'd.) 2 3 NUTTER McCLENNEN & FISH, LLP BY: DAWN M. CURRY, ESQ. 4 155 Seaport Boulevard Boston, Massachusetts 02210 5 (617) 439-2286 Dcurry@nutter.com 6 - and - 7 DRINKER, BIDDLE & REATH, LLP 8 BY: SUSAN M. SHARKO, ESQ. 600 Campus Drive 9 Florham Park, New Jersey 07932 (973) 549-7000 10 susan.sharko@dbr.com 11 - and - 12 WEIL GOTSHAL & MANGES, LLP BY: RICHARD M. HEASLIP, ESQ. 13 17 Hulfish Street, Suite 201 Princeton, New Jersey 08542 14 (609) 986-1118 richard.heaslip@weil.com 15 Representing the Defendants, Johnson & Johnson entities 16 17 SEYFARTH SHAW, LLP BY: RENÉE B. APPEL, ESQ. 18 975 F Street, NW Washington, D.C. 20004 19 (202) 463-2400 rappel@seyfarth.com Representing the Defendant, PCPC	1

	Page 6	Page 8
1	1	
13 Holcomb-8 Talc & Ovarian 180 Cancer 14 (Narod) 15 Holcomb-9 Table 1 186 Study Type, Year	13 Cancer (Houghton) 14 Holcomb-22 Douching, Talc Use 403 15 And Risk of Ovarian	
16 Author Journal 17 Holcomb-10 Retire Statistical 199 Significance 18 (Amrhein) 19 Holcomb-11 Draft Screening 220 Assessment	Cancer 16 (Gonzalez) 17 Holcomb-23 Perineal Talc Use 406 and Ovarian Cancer 18 A Systematic Review And Metal-Analysis	
20 December 2018 21 Holcomb-12 Systemic Review 224 and Meta-Analysis 22 Of the Association	19 (Penninkilampi) 20 Holcomb-24 Demonstrative 407 TPP and Ovarian 21 And TPP Serous Cancer	
Between Perineal 23 Use of Talc and Risk Of Ovarian Cancer 24 (Taher)	Meta-Analyses 22 23 24	
1	Page 7	Page 9
2 E X H I B I T S (Cont'd.) 3	EXHIBITS (Cont'd.) NO. DESCRIPTION PAGE Holcomb-25 FDA Letter, 4/1/14 424 To Epstein from Musser RE, Docket Numbers JNJ 000489048-54 Holcomb-26 American Journal of 468 Respiratory and Critical Care Medicine Talc Should Not Be Used For Pleurodeses in Patients with Nonmalignant Pleural Effusions (Ghio) Holcomb-27 Genital Use of Talc 471 And Risk of Ovarian Cancer: A Meta-Analysis (Berge) Holcomb-28 Epithelial Ovarian 486 Cancer (Lheureux) Holcomb-29 What is New in 488 Ovarian Cancer? (Wright) Holcomb-30 FDA Advises Consumers 496 To Stop Using Certain	

	Page 10		Page 12
1		1	BY MS. GARBER:
2	DEPOSITION SUPPORT INDEX	2	Q. Good morning, Doctor.
3		3	A. Good morning.
4		4	Q. Would you please state your
5	Direction to Witness Not to Answer	5	name for the record?
6	PAGE LINE	6	A. Yes. My name is Kevin
7	None.	7	Holcomb.
8	Request for Production of Documents	8	
9	PAGE LINE	9	Q. And you're a medical doctor?
	None.	10	A. Yes, I am.
10		1	Q. Are you a gynecologic
11	Stipulations	11	oncologist?
12	PAGE LINE	12	A. I am.
13	None.	13	Q. And are you a practicing
$\frac{13}{14}$	Questions Marked	14	gynecologic oncologist?
15	PAGE LINE	15	A. I am.
13	None.	16	Q. Where do you practice?
16		17	A. I practice at Weill Cornell
17		18	Medical Center.
18		19	Q. Thank you. Are you here
19		20	today as a litigation expert for the
20		21	defendant, Johnson & Johnson?
21 22		22	A. I am.
23		23	Q. And this is not the first
24		24	time you've testified for the defendant
	Page 11		Page 13
1		1	Johnson & Johnson regarding their talcum
2	THE VIDEOGRAPHER: We are	2	powder products and risk of ovarian
3	now on the record. My name is	3	cancer; is that true?
4	Henry Marte. I am a videographer	4	A. That's true.
5	with Golkow Litigation Services.	5	Q. You testified in deposition
6	Today's date is March 27,	6	and at trial in the Ingham matter; is
7	2019, and the time is 9:53 a.m.	7	that correct?
8	This videotaped deposition	8	A. That's correct.
9	is being held at 767 Fifth Avenue,	9	Q. Have you ever testified in
10	New York, New York in the matter	10	deposition or trial in any other talcum
11	of Talcum Powder Litigation.	11	powder ovarian cancer cases?
12	The deponent today is	12	A. No, I haven't.
13	Dr. Kevin Holcomb.	13	Q. Doctor, have you been sued
	All appearances are noted on	14	in connection with your own medical care
14	11	15	and treatment?
14 15	the stanographic record		
15	the stenographic record.	1	
15 16	Will the court reporter	16	A. Yes, I have.
15 16 17		16 17	A. Yes, I have.Q. How many times?
15 16 17 18	Will the court reporter please administer the oath.	16 17 18	A. Yes, I have.Q. How many times?A. Probably about three.
15 16 17 18 19	Will the court reporter please administer the oath KEVIN HOLCOMB, M.D.,	16 17 18 19	A. Yes, I have.Q. How many times?A. Probably about three.Q. Doctor, if you testified in
15 16 17 18 19 20	Will the court reporter please administer the oath KEVIN HOLCOMB, M.D., having been first duly sworn, was	16 17 18 19 20	 A. Yes, I have. Q. How many times? A. Probably about three. Q. Doctor, if you testified in a prior matter that it was four times,
15 16 17 18 19 20 21	Will the court reporter please administer the oath KEVIN HOLCOMB, M.D.,	16 17 18 19 20 21	 A. Yes, I have. Q. How many times? A. Probably about three. Q. Doctor, if you testified in a prior matter that it was four times, does that refresh your recollection?
15 16 17 18 19 20 21 22	Will the court reporter please administer the oath. KEVIN HOLCOMB, M.D., having been first duly sworn, was examined and testified as follows:	16 17 18 19 20 21 22	 A. Yes, I have. Q. How many times? A. Probably about three. Q. Doctor, if you testified in a prior matter that it was four times, does that refresh your recollection? A. It's possible.
15 16 17 18 19 20 21	Will the court reporter please administer the oath KEVIN HOLCOMB, M.D., having been first duly sworn, was	16 17 18 19 20 21	 A. Yes, I have. Q. How many times? A. Probably about three. Q. Doctor, if you testified in a prior matter that it was four times, does that refresh your recollection?

Kevin Holcomb, M.D.

Page 14 Page 16 1 defendant resolved in one way or another? 1 Q. If you don't understand one 2 A. I believe there's still one 2 of my questions, I'm bound to be unartful at times, and I don't want you to guess 3 outstanding. 3 at what you think I'm asking you. Just 4 O. What is the name of that 4 5 5 please ask me to clarify. Because if you matter? 6 A. I'm trying to remember the 6 don't I'm going to assume that you patient's last name. I'm sorry. I don't 7 understood my question. Is that fair? 7 remember the last name of the patient, 8 8 A. That's fair. 9 Q. All right. I just want to 9 kind of clear up a few definitions so 10 Q. Where was that case venued? 10 11 A. In New York. 11 we're on the same page. Okay? 12 O. And is it accurate, Doctor, 12 When I refer to talcum 13 that none of those matters concern 13 powder products today, will you understand that that includes Johnson & 14 diagnosis and/or treatment of ovarian 14 15 15 Johnson's Baby Powder and Shower to cancer? 16 A. That's true. 16 Shower products? O. Is the nature of the matter 17 17 A. Yes. Q. And in your report you use that's still open in connection with 18 18 19 performance of robotic surgery? 19 the word talc. Is that fair to assume 20 that you are including Johnson & 20 A. Yes. Johnson's Baby Powder and Shower to 21 Q. Thank you. So I don't know 21 the last time that you've been deposed. 2.2 2.2 Shower products? 23 Has it been since the Ingham matter? 23 MS. CURRY: Objection to A. That was the last time. 24 24 form. Page 15 Page 17 1 Q. All right. I'll go through 1 THE WITNESS: That's true. 2 the admonitions that typically accompany 2 BY MS. GARBER: the deposition process so we've reviewed 3 3 Q. What is a carcinogen? the most important ones. Okay? 4 4 A. A carcinogen is something 5 A. Okav. 5 that causes cancer. 6 Q. All right. You've taken an 6 Q. What does it mean to be 7 oath to tell the truth under penalty of 7 carcinogenic? perjury. And, Doctor, you understand 8 8 A. To have the ability to cause 9 that that oath carries the same force and 9 cancer. 10 effect as if you were testifying in a 10 What is a risk factor in the 11 court of law even though you are in an 11 context of ovarian cancer? 12 informal setting of this conference room. 12 MS. CURRY: Objection to 13 Do you understand that? 13 14 A. I do. THE WITNESS: A risk factor 14 15 Q. And you've given depositions 15 is something that's associated so you know that the court reporter is 16 16 with a higher likelihood of 17 going to be taking down what's said, and 17 developing a cancer. 18 we want to avoid talking over one 18 BY MS. GARBER: Q. How do you define higher 19 another. 19 20 You're doing a good job of 20 likelihood? 21 waiting for my question. And I'll try to 21 A. More likely than if you do the same, wait for your answer, so we hadn't been exposed. 22 22 get a clear record. Okay? 23 23 Q. To a medical degree of 24 A. Okay. 24 certainty?

	Page 18		Page 20
1	MS. CURRY: Objection to	1	exposure to a known carcinogen and
2	form.	2	the development of the cancer that
3	THE WITNESS: Typically that	3	it's associated with, that it
4	is something that I would relate	4	causes.
5	to statistical analysis from	5	BY MS. GARBER:
6	studies. So there would be	6	Q. You used the phrase "known
7	statistical definitions.	7	carcinogen." How do you know if it's a
8	BY MS. GARBER:	8	known carcinogen?
9	Q. Rather than a medical degree	9	A. Well, if it's not a
10	of certainty, correct?	10	carcinogen, you can't really have a
11	MS. CURRY: Objection to	11	latency period.
12	form.	12	Q. In the performance of a
13	THE WITNESS: My medical	13	study assessing whether or not it's a
14	degree of certainty is often based	14	carcinogen, you can nevertheless still
15	on the statistical results of	15	have a latency period for purposes of
16	tests.	16	determining follow-up and things of that
17	BY MS. GARBER:	17	nature, correct?
18	Q. How do you define a causal	18	A. No, I don't think
19	factor in the context of ovarian cancer?	19	MS. CURRY: Objection to
20	A. A causal factor would be	20	form.
21	something that you know caused the	21	THE WITNESS: I don't agree
22	cancer.	22	with that.
23	Q. How do you know if it caused	23	BY MS. GARBER:
24	cancer?	24	Q. You don't?
	Page 19		Page 21
1	MS. CURRY: Objection to	1	A. No.
2	form.	2	Q. All right. Do you have an
3	THE WITNESS: Well, in the	3	opinion as to the latency period for
4	context of any individual patient,	4	ovarian cancer?
5	I can't say what caused their	5	A. In general, I think to
6	cancer. So I think it's	6	define the latency period, you have to,
7	impossible to say on an individual	7	one, start with a carcinogen, and then
8	level that you've seen that.	8	have data showing that you have an idea
9	Outside of the individual, if you	9	from the time of first exposure to that
10	have a substance that can	10	carcinogen to the development of the
11	transform cells into a malignant	11	disease in question.
12	phenotype in a cell culture for	12	So latency periods are going
13	example, that would be evidence of	13	to be specific to whichever carcinogen
14	a carcinogen.	14	you're speaking about.
4 -	BY MS. GARBER:	15	Q. Okay. Fair enough. Is
15		1	
16	Q. What is your definition of	16	serous ovarian cancer included under the
16 17	Q. What is your definition of the phrase latency period in the context	16 17	serous ovarian cancer included under the umbrella of epithelial ovarian cancer?
16 17 18	Q. What is your definition of the phrase latency period in the context of ovarian cancer?	16 17 18	serous ovarian cancer included under the umbrella of epithelial ovarian cancer? A. It is.
16 17 18 19	Q. What is your definition of the phrase latency period in the context of ovarian cancer? MS. CURRY: Objection to	16 17 18 19	serous ovarian cancer included under the umbrella of epithelial ovarian cancer? A. It is. Q. So in other words, serous
16 17 18 19 20	Q. What is your definition of the phrase latency period in the context of ovarian cancer? MS. CURRY: Objection to form.	16 17 18 19 20	serous ovarian cancer included under the umbrella of epithelial ovarian cancer? A. It is. Q. So in other words, serous ovarian cancer is ovarian cancer, right?
16 17 18 19 20 21	Q. What is your definition of the phrase latency period in the context of ovarian cancer? MS. CURRY: Objection to form. THE WITNESS: In the context	16 17 18 19 20 21	serous ovarian cancer included under the umbrella of epithelial ovarian cancer? A. It is. Q. So in other words, serous ovarian cancer is ovarian cancer, right? A. It's a type of ovarian
16 17 18 19 20 21 22	Q. What is your definition of the phrase latency period in the context of ovarian cancer? MS. CURRY: Objection to form. THE WITNESS: In the context of ovarian cancer well, the	16 17 18 19 20 21 22	serous ovarian cancer included under the umbrella of epithelial ovarian cancer? A. It is. Q. So in other words, serous ovarian cancer is ovarian cancer, right? A. It's a type of ovarian cancer, yes.
16 17 18 19 20 21	Q. What is your definition of the phrase latency period in the context of ovarian cancer? MS. CURRY: Objection to form. THE WITNESS: In the context	16 17 18 19 20 21	serous ovarian cancer included under the umbrella of epithelial ovarian cancer? A. It is. Q. So in other words, serous ovarian cancer is ovarian cancer, right? A. It's a type of ovarian

	Page 22		Page 24
1	accurate, Doctor, that you've never	1	MS. CURRY: Object to the
2	conducted research experiments regarding	2	form.
3	the effects of talcum powder products and	3	THE WITNESS: I'm a little
4	its carcinogenicity?	4	confused by the question. Because
5	A. That's true.	5	if you are giving a lecture and
6	Q. And in your CV it shows that	6	you're listing what you consider
7	you've never published regarding talcum	7	risk factors, anything that's not
8	powder products and ovarian cancer,	8	on that list you are not
9	right?	9	mentioning as a risk factor, so
10	A. That's true.	10	you're you're asking me have I
11	Q. Is it also true that you've	11	formed a negative?
12	never published regarding talcum powder	12	BY MS. GARBER:
13	products, asbestos, and ovarian cancer?	13	Q. Yeah, well, and I appreciate
14	A. That's true.	14	you asking for clarification, because I
15	Q. You don't have any	15	don't think my question was a good one,
16	publications about asbestos at all,	16	so thank you.
17	correct?	17	I just want to be sure I
18	A. That's true.	18	understand the the nature of your
19		19	presentation.
20	Q. And you don't have any	20	-
	publications with regard to talcum powder	21	In your presentation you've never actually used the word talc in any
21	products at all, correct?	22	of your presentations with regard to risk
22	A. That's true.	23	factors and ovarian cancer; is that true?
23	Q. Have you ever created or	24	A. No.
24	written any presentations regarding	24	A. No.
	Page 23		Page 25
1	talcum powder products and ovarian	1	Q. What percentage of your
2	cancer?	2	current patients have been diagnosed with
3	A. No. I've created materials	3	female reproductive cancer including
4	on ovarian cancer and its risk factors	4	ovarian cancer?
5	and general educational information for	5	A. I'd say about 70 percent of
6	the students medical students,	6	my patients have malignant.
7	residents and fellows. But not	7	Q. Can you break that down by
8	particularly with regard to talc.	8	way of ovarian cancer?
9	Q. Did any of were those in	9	A. Out of that 70 percent,
10	regard to risk factors and ovarian cancer	10	probably 30 percent are ovarian.
11	risk?	11	Q. For the 30 or so percent
12	A. Yes.	12	that have not been diagnosed with a
13	Q. And did any of those	13	malignancy, do you counsel them with
14	materials address the issue of talc one	14	regard to risk factors?
15	way or another?	15	MS. CURRY: Objection to
16	A. No.	16	form.
17	Q. So let me clarify my	17	MS. GARBER: I wasn't done
18	question. Is it accurate, Doctor, that	18	yet. I'll start again.
19	in those presentations that you've	19	BY MS. GARBER:
20	created with regard to risk factors for	20	Q. With regard to the
21	ovarian cancer, you've never made an	21	30 percent of your patients that have not
22	affirmative statement in any of those	22	been diagnosed with malignancy, is it
22	•		
23	that tale is not a risk factor; is that	23	your custom and practice to counsel them
	that tale is not a risk factor; is that true?	23	your custom and practice to counsel them with regard to risk factors for cancer in

	Page 26		Page 28
1	general?	1	any certain risk of any certain type of
2	MS. CURRY: Objection to	2	cancer?
3	form.	3	MS. CURRY: Object to the
4	THE WITNESS: I take a	4	form.
5	formal history and a complete	5	THE WITNESS: Well, I'm
б	history, and I will address any	6	aware that heavy occupational
7	issues that I may bring up. But	7	exposure to asbestos has been
8	giving a general lecture to each	8	determined by at least some to be
9	patient on the risk factors for	9	a cause of ovarian cancer. So I
10	cancers, it would only come up in	10	guess if if it came out through
11	questions.	11	a history that a patient had
12	BY MS. GARBER:	12	engaged in any of those type of
13	Q. When you take a history,	13	practices, it would it would
14	Doctor, do you ask for a patient's	14	catch my attention.
15	exposure to asbestos?	15	BY MS. GARBER:
16	A. When I'm taking a history I	16	Q. Thank you.
17	do question patients about their	17	How many publications do you
18	occupations. And that would be the only	18	have to your credit about the causes of
19	thing I can think of where an asbestos	19	ovarian cancer over your career?
20	exposure would likely be revealed.	20	A. I don't believe any of my
21	Q. Do you know how long it	21	publications are addressing the causes of
22	takes to conduct an asbestos history?	22	ovarian cancer.
23	MS. CURRY: Object to form.	23	Q. Women place talcum powder
24	BY MS. GARBER:	24	products on their genitals to stay fresh
	Page 27		Page 29
1	Q. A thorough asbestos history	1	and clean, right?
2	of a patient?	2	MS. CURRY: Object to the
3	MS. CURRY: Same objection.	3	form.
4	THE WITNESS: No, I don't.	4	THE WITNESS: I'm not sure
5	BY MS. GARBER:	5	why every individual uses talcum
6	Q. When you take a history, do	6	powder.
7	you ask patients about their exposure to	7	BY MS. GARBER:
8	talcum powder products?	8	Q. Do you understand that women
9	A. No.	9	place talcum powder products on their
10	Q. Why do you ask them about	10	genitals?
11	their occupation and put that in the	11	A. Yes, I do.
12	context of asbestos?	12	Q. And do you understand that
13	MS. CURRY: Object to the	13	women place talcum powder products on
14	form.	14	their body?
15	THE WITNESS: That's not why	15	A. Yes, I do.
16	I'm asking them about the	16	Q. And of course, you
17	occupational history. I was	17	understand that women in the United
18	thinking, was there any chance of	18	States were likely diapered with talcum
19	asbestos exposure coming up in my	19	powder products, correct?
20	routine questioning, and I thought	20	MS. CURRY: Object to the
0.1	that would be the only area that I	21	form.
21	11.1:1 6:	22	THE WITNESS: I'm not sure
22	could think of it coming up.		
	BY MS. GARBER: Q. And do you relate that to	23 24	of the frequency of using it for

PageID: 193731 Kevin Holcomb, M.D.

		1	
	Page 30		Page 32
1	BY MS. GARBER:	1	question. So I'll ask it again.
2	Q. But you understand that at	2	Doctor, are you aware of
3	least some portion of the population in	3	data that indicates that there are women
4	the United States was diapered with	4	now with ovarian cancer who used talc on
5	talcum powder products, right?	5	their genitals in the 1950s, '60s, and
6	A. I do understand that.	6	'70s, any data?
7	Q. Are you aware of data that	7	MR. MIZGALA: Objection.
8	indicates that there are women now with	8	THE WITNESS: I'm not aware
9	ovarian cancer who use talc on their	9	of any specific data, no.
10	genitals in the 1950s, '60s, and early	10	BY MS. GARBER:
11	1970s?	11	Q. Do you agree generally,
12	A. Could you repeat the	12	Doctor, that there are women now in the
13	question.	13	United States with ovarian cancer who
14	Q. Sure. Are you aware of data	14	were diapered with Johnson & Johnson Baby
15	that indicates that there are women now	15	Powder in the 1950s, '60s, and early
16	with ovarian cancer who used talc on	16	1970s?
17	their genitals in the 1950s, '60s, and	17	MS. CURRY: Object to the
18	early 1970s?	18	form.
19	MR. MIZGALA: Object to	19	THE WITNESS: I don't have
20	form.	20	any specific data on people being
21	MS. GARBER: Are we	21	diapered in the '50s and '60s. So
22	sorry. Are we going to have one	22	no, I'd have to say no.
23	person objecting for the group? I	23	BY MS. GARBER:
24	thought that was CMO 11.	24	Q. Okay. Johnson & Johnson
	medgin min was enter 11		Q. Okay. Johnson & Johnson
	Page 31		Page 33
1	Page 31 MS. SHARKO: No that's not	1	Page 33 talcum powder products are cosmetic
1 2		1 2	
	MS. SHARKO: No that's not		talcum powder products are cosmetic
2	MS. SHARKO: No that's not the in the CMO. He doesn't	2	talcum powder products are cosmetic products, not medications, right?
2	MS. SHARKO: No that's not the in the CMO. He doesn't represent J&J.	2 3	talcum powder products are cosmetic products, not medications, right? A. That's true.
2 3 4	MS. SHARKO: No that's not the in the CMO. He doesn't represent J&J. MS. GARBER: I thought I	2 3 4	talcum powder products are cosmetic products, not medications, right? A. That's true. Q. There's no medical benefits
2 3 4 5	MS. SHARKO: No that's not the in the CMO. He doesn't represent J&J. MS. GARBER: I thought I read one objection was for all.	2 3 4 5	talcum powder products are cosmetic products, not medications, right? A. That's true. Q. There's no medical benefits for women to use defendant's talcum powder products on their genitals, right?
2 3 4 5 6	MS. SHARKO: No that's not the in the CMO. He doesn't represent J&J. MS. GARBER: I thought I read one objection was for all. MS. SHARKO: Sometimes we do	2 3 4 5 6	talcum powder products are cosmetic products, not medications, right? A. That's true. Q. There's no medical benefits for women to use defendant's talcum
2 3 4 5 6 7	MS. SHARKO: No that's not the in the CMO. He doesn't represent J&J. MS. GARBER: I thought I read one objection was for all. MS. SHARKO: Sometimes we do that.	2 3 4 5 6 7	talcum powder products are cosmetic products, not medications, right? A. That's true. Q. There's no medical benefits for women to use defendant's talcum powder products on their genitals, right? MS. CURRY: Objection to
2 3 4 5 6 7 8	MS. SHARKO: No that's not the in the CMO. He doesn't represent J&J. MS. GARBER: I thought I read one objection was for all. MS. SHARKO: Sometimes we do that. BY MS. GARBER:	2 3 4 5 6 7 8	talcum powder products are cosmetic products, not medications, right? A. That's true. Q. There's no medical benefits for women to use defendant's talcum powder products on their genitals, right? MS. CURRY: Objection to form.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. SHARKO: No that's not the in the CMO. He doesn't represent J&J. MS. GARBER: I thought I read one objection was for all. MS. SHARKO: Sometimes we do that. BY MS. GARBER: Q. Go ahead, Doctor. I forgot my question. Do you remember it? A. If you would repeat it, I'd appreciate it. Q. Sure. Let me see if you answered it. So my question is, are you aware of data that indicates women now with ovarian cancer who used talcum powder products on their genitals in the early 1950s, '60s, and 1970s? A. I think your question was am I aware of any studies that suggest this. And I'd have to say, I'd have to look	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	talcum powder products are cosmetic products, not medications, right? A. That's true. Q. There's no medical benefits for women to use defendant's talcum powder products on their genitals, right? MS. CURRY: Objection to form. THE WITNESS: No, I would disagree with that. BY MS. GARBER: Q. There's medical benefits? MS. CURRY: Object to the form. THE WITNESS: I think you're using a term "medical benefit." I'm not sure if you can first clarify what you mean by medical benefit. BY MS. GARBER: Q. Sure. You've done a

PageID: 193732 Kevin Holcomb, M.D.

	Page 34		Page 36
1	A. I do.	1	MS. CURRY: Object to the
2	Q. All right. And what do you	2	form.
3	think that means, when I say a	3	THE WITNESS: That wasn't
4	risk/benefit in the context of a	4	no, I wouldn't. But I believe
5	medication?	5	your question was, is there a
6	A. A risk/benefit would be an	6	medical benefit. And that's in
7	analysis of the reason why the person is	7	the eye of the patient who's using
8	using the drug versus the risk of using	8	it. And I would have to ask her
9	the drug.	9	why she's using it.
10	Q. Right. And so the benefit	10	For example, if someone says
11	is the reason they are using the drug,	11	I'm diabetic, I get yeast
12	right?	12	infections when I'm moist, and I
13	A. Right.	13	find that talcum keeps me dry and
14	Q. It has to have some sort of	14	I have less yeast infections, I
15		15	would say that's probably a
16	efficacy or benefit, right?	16	medical benefit to that
17	A. Right. MS. CURRY: Object to the	17	individual.
18	form.	18	BY MS. GARBER:
19	BY MS. GARBER:	19	
20		20	Q. But talcum powder products do not fall under the rubric of a
21	Q. So my question is now take	21	
22	that to tale and talcum powder products.	21	medication for purposes of regulatory;
23	There's no medical benefit	23	isn't that true?
	in that context, is there?		A. That's true. But things that fall under the rubric of medications
24	MS. CURRY: Object to the	24	that fall under the ruoric of medications
	Page 35		Page 37
1	form.	1	that we prescribe pretty regularly that
2	THE WITNESS: I'm assuming a	2	are just quality of life issues are
3	practice that has endured for this	3	considered medications. I mean there are
4	long of time, there must be a	4	medications that prevent hot flashes. I
5	perception on the people who are	5	don't believe anybody can point to a
6	using it that they are benefiting	6	specific medical benefit of stopping hot
7	from it in some form or fashion.	7	flashes, but there's still medications
8	BY MS. GARBER:	8	for that use.
9	Q. Sure. My question is a	9	Q. Doctor, you've been
10	little different.	10	designated as an expert by Johnson &
11	Is is there a medical	11	Johnson in the talcum powder litigation
12	benefit to using talcum powder products	12	in the multi-district litigation; is that
13	in the same context as, say, a	13	right?
14	medication, drug, something like that?	14	A. That's true.
15	MS. CURRY: Object to the	15	Q. And you understand that
16	form.	16	we're here today to take your deposition
17	THE WITNESS: Yeah, I would	17	to get all your opinions and the bases of
18	say there is.	18	those opinions so we can prepare for
19	BY MS. GARBER:	19	briefings, hearings, and trial.
20	Q. There isn't or	20	Do you understand that?
21	A. There is, I would say.	21	A. Yes.
22	Q. There is? So you would tell	22	Q. When were you first retained
23	a patient to use talcum powder products	23	in the talcum powder ovarian cancer
24	for a medical benefit?	24	litigation generally, not in the MDL,
20 21 22 23	Q. There isn't orA. There is, I would say.Q. There is? So you would tella patient to use talcum powder products	20 21 22 23	Do you understand that A. Yes. Q. When were you first re in the talcum powder ovarian ca

PageID: 193733 Kevin Holcomb, M.D.

	Page 38		Page 40
1	just in general?	1	MS. GARBER: I do.
2	A. The Ingham case was my only	2	BY MS. GARBER:
3	other involvement. And I believe that.	3	Q. Doctor, if I could call your
4	That interaction began late. Probably	4	attention to
5	November let me think. I guess that	5	MS. GARBER: You know what,
6	would be November of 2017 then.	6	I am going to mark this as
7	No, I'm sorry, more like	7	Exhibit 1.
8	January. I think it was more like	8	Can I have that back,
9	January of 2018 then.	9	Doctor?
10	Q. Were there any documents	10	THE WITNESS: Sure.
11	that would refresh your recollection in	11	MS. GARBER: Sorry.
12	that regard?	12	(Document marked for
13	A. Not that I can think of.	13	identification as Exhibit
14	Q. You are not an asbestos	14	Holcomb-1.)
15	expert, are you?	15	BY MS. GARBÉR:
16	A. No.	16	Q. I don't mean to throw these
17	Q. Before you were hired by	17	at you.
18	Johnson & Johnson regarding talcum powder	18	A. I didn't take offense.
19	products, is it fair to say that your	19	Q. I apologize.
20	understanding of asbestos was pretty	20	So the front page of
21	limited?	21	Exhibit 1 indicates that this is a
22	MS. CURRY: Object to the	22	deposition transcript on May 7th, 2018,
23	form.	23	in the Ingham case; is that correct?
24	THE WITNESS: I'm not sure	24	A. That's correct.
	Dage 30		
	Page 39		Page 41
1	what you mean by limited.	1	Q. And on the front page it
2	what you mean by limited. BY MS. GARBER:	2	Q. And on the front page it indicates that you are the deponent,
2	what you mean by limited. BY MS. GARBER: Q. Did you testify that it was		Q. And on the front page it indicates that you are the deponent, correct?
2 3 4	what you mean by limited. BY MS. GARBER: Q. Did you testify that it was pretty limited in a prior case?	2 3 4	Q. And on the front page it indicates that you are the deponent, correct? A. That I am the?
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2 3 4 5 6 7	what you mean by limited. BY MS. GARBER: Q. Did you testify that it was pretty limited in a prior case? MS. CURRY: Object to the form. THE WITNESS: When I if I	2 3 4 5 6 7	Q. And on the front page it indicates that you are the deponent, correct? A. That I am the? Q. Person who was being deposed. Does your name
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	what you mean by limited. BY MS. GARBER: Q. Did you testify that it was pretty limited in a prior case? MS. CURRY: Object to the form. THE WITNESS: When I if I had used the term limited, I guess I was referring to its role in gynecologic oncology. I'm not an expert in asbestos in any way. But I probably have the same amount of knowledge as anyone else. BY MS. GARBER: Q. Doctor, let's look at your prior testimony, if we can. I'm going to mark as Exhibit 1 no, I'm not going to mark it	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. And on the front page it indicates that you are the deponent, correct? A. That I am the? Q. Person who was being deposed. Does your name A. Yes. Q. Yes, it is. And then, Doctor, if you turn to Page 56 of the transcript, lines 2 through 8, I will read it. "Question: In fact, is it fair to say that, B, until you began consulting for Johnson & Johnson, your understanding of the different fibers of asbestos that exist was was pretty limited? And then question: "Is that
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PageID: 193734 Kevin Holcomb, M.D.

	Page 42		Page 44
1	limited before you were hired by J&J,	1	entailed what I thought was
2	correct?	2	necessary to offer an opinion on
3	MS. CURRY: Object to the	3	the question of whether talc use
4	form.	4	causes ovarian cancer.
5	THE WITNESS: Your prior	5	BY MS. GARBER:
6	question just asked me about my	6	Q. At the time that you were
7	understanding of of asbestos	7	hired by Johnson & Johnson to do work in
8	and was proceeded by my admitting	8	the MDL, you already harbored harbored
9	that I'm not an asbestos	9	causation opinions based on the work that
10	specialist.	10	you did attendant to the Ingham cases,
11	This testimony has to do	11	correct?
12	with my understanding of the	12	A. That's correct.
13	different fiber types of asbestos.	13	Q. Isn't it true that in the
14	So I think there's a little bit of	14	Ingham case you formed your opinion that
15	a difference in what I was	15	talcum powder products do not cause
16	testifying about here and your	16	ovarian cancer based on review of 61
17	question. But I don't see the	17	published studies provided to you by
18	inconsistency.	18	counsel for Johnson & Johnson?
19	BY MS. GARBER:	19	MS. CURRY: Object to the
20	Q. Okay. Fair enough.	20	form.
21	As to the fibers, before you	21	THE WITNESS: That's
22	were hired by J&J and consulting for	22	that's not true. My opinion that
23	them, you weren't even aware what an	23	tale did not cause ovarian cancer
24	amphibole was, right?	24	preceded my involvement with
	unipine ord was, right		preceded my involvement with
	Page 43		
	1490 13		Page 45
1	A. No.	1	Page 45 Ingham.
1 2		1 2	
	A. No.		Ingham.
2	A. No.Q. All right. When were you	2	Ingham. But, yes, that reliance list
2	A. No.Q. All right. When were you first retained in the MDL talc litigation?A. That, I believe, was around	2 3	Ingham. But, yes, that reliance list helped further confirm that
2 3 4	A. No. Q. All right. When were you first retained in the MDL talc litigation?	2 3 4	Ingham. But, yes, that reliance list helped further confirm that feeling.
2 3 4 5	A. No.Q. All right. When were you first retained in the MDL talc litigation?A. That, I believe, was around	2 3 4 5	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for
2 3 4 5 6	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018.	2 3 4 5 6	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit
2 3 4 5 6 7	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your	2 3 4 5 6 7	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.)
2 3 4 5 6 7 8	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you	2 3 4 5 6 7 8	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER:
2 3 4 5 6 7 8 9 10	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you were hired in the MDL?	2 3 4 5 6 7 8 9	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER: Q. Doctor, I'm going to mark as
2 3 4 5 6 7 8 9	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you were hired in the MDL? A. My understanding with that,	2 3 4 5 6 7 8 9	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER: Q. Doctor, I'm going to mark as Exhibit 2 another deposition transcript.
2 3 4 5 6 7 8 9 10	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you were hired in the MDL? A. My understanding with that, was that I was I was being asked for	2 3 4 5 6 7 8 9 10 11	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER: Q. Doctor, I'm going to mark as Exhibit 2 another deposition transcript. Doctor, this is Exhibit 2
2 3 4 5 6 7 8 9 10 11 12	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you were hired in the MDL? A. My understanding with that, was that I was I was being asked for my opinion based on my assessment of the	2 3 4 5 6 7 8 9 10 11 12	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER: Q. Doctor, I'm going to mark as Exhibit 2 another deposition transcript. Doctor, this is Exhibit 2 is the same front transcript, the Ingham
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2 3 4 5 6 7 8 9 10 11 12 13 14	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you were hired in the MDL? A. My understanding with that, was that I was I was being asked for my opinion based on my assessment of the existing body of literature in the area of whether talc causes ovarian cancers.	2 3 4 5 6 7 8 9 10 11 12 13 14	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER: Q. Doctor, I'm going to mark as Exhibit 2 another deposition transcript. Doctor, this is Exhibit 2 is the same front transcript, the Ingham matter, and on your deposition taken on May 7, 2018, right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you were hired in the MDL? A. My understanding with that, was that I was I was being asked for my opinion based on my assessment of the existing body of literature in the area of whether talc causes ovarian cancers. Q. We're going to get to the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER: Q. Doctor, I'm going to mark as Exhibit 2 another deposition transcript. Doctor, this is Exhibit 2 is the same front transcript, the Ingham matter, and on your deposition taken on May 7, 2018, right? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you were hired in the MDL? A. My understanding with that, was that I was I was being asked for my opinion based on my assessment of the existing body of literature in the area of whether talc causes ovarian cancers. Q. We're going to get to the body of literature in a moment. But were	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER: Q. Doctor, I'm going to mark as Exhibit 2 another deposition transcript. Doctor, this is Exhibit 2 is the same front transcript, the Ingham matter, and on your deposition taken on May 7, 2018, right? A. Yes. Q. And at Page 57, Lines 10
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you were hired in the MDL? A. My understanding with that, was that I was I was being asked for my opinion based on my assessment of the existing body of literature in the area of whether talc causes ovarian cancers. Q. We're going to get to the body of literature in a moment. But were you asked to do anything else? Or	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER: Q. Doctor, I'm going to mark as Exhibit 2 another deposition transcript. Doctor, this is Exhibit 2 is the same front transcript, the Ingham matter, and on your deposition taken on May 7, 2018, right? A. Yes. Q. And at Page 57, Lines 10 through 14, question reads:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you were hired in the MDL? A. My understanding with that, was that I was I was being asked for my opinion based on my assessment of the existing body of literature in the area of whether talc causes ovarian cancers. Q. We're going to get to the body of literature in a moment. But were you asked to do anything else? Or what strike that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER: Q. Doctor, I'm going to mark as Exhibit 2 another deposition transcript. Doctor, this is Exhibit 2 is the same front transcript, the Ingham matter, and on your deposition taken on May 7, 2018, right? A. Yes. Q. And at Page 57, Lines 10 through 14, question reads: "Are the 61 reliance materials cited in Exhibit 4 the complete
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you were hired in the MDL? A. My understanding with that, was that I was I was being asked for my opinion based on my assessment of the existing body of literature in the area of whether talc causes ovarian cancers. Q. We're going to get to the body of literature in a moment. But were you asked to do anything else? Or what strike that. What was your understanding	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER: Q. Doctor, I'm going to mark as Exhibit 2 another deposition transcript. Doctor, this is Exhibit 2 is the same front transcript, the Ingham matter, and on your deposition taken on May 7, 2018, right? A. Yes. Q. And at Page 57, Lines 10 through 14, question reads: "Are the 61 reliance
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you were hired in the MDL? A. My understanding with that, was that I was I was being asked for my opinion based on my assessment of the existing body of literature in the area of whether talc causes ovarian cancers. Q. We're going to get to the body of literature in a moment. But were you asked to do anything else? Or what strike that. What was your understanding of your assignment? Did it did it	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER: Q. Doctor, I'm going to mark as Exhibit 2 another deposition transcript. Doctor, this is Exhibit 2 is the same front transcript, the Ingham matter, and on your deposition taken on May 7, 2018, right? A. Yes. Q. And at Page 57, Lines 10 through 14, question reads: "Are the 61 reliance materials cited in Exhibit 4 the complete universe of the materials that you relied
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. No. Q. All right. When were you first retained in the MDL talc litigation? A. That, I believe, was around November of 2018. Q. And what was your understanding of your assignment when you were hired in the MDL? A. My understanding with that, was that I was I was being asked for my opinion based on my assessment of the existing body of literature in the area of whether talc causes ovarian cancers. Q. We're going to get to the body of literature in a moment. But were you asked to do anything else? Or what strike that. What was your understanding of your assignment? Did it did it entail anything else?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Ingham. But, yes, that reliance list helped further confirm that feeling. (Document marked for identification as Exhibit Holcomb-2.) BY MS. GARBER: Q. Doctor, I'm going to mark as Exhibit 2 another deposition transcript. Doctor, this is Exhibit 2 is the same front transcript, the Ingham matter, and on your deposition taken on May 7, 2018, right? A. Yes. Q. And at Page 57, Lines 10 through 14, question reads: "Are the 61 reliance materials cited in Exhibit 4 the complete universe of the materials that you relied upon in order to form your opinions in

PageID: 193735 Kevin Holcomb, M.D.

	Page 46		Page 48
1	today, Doctor?	1	opinion in the Ingham case were the
2	MS. CURRY: Object to the	2	cohort studies which included gate
3	form.	3	Gertig, Gates 2010, Houghton, and
4	THE WITNESS: No, it's not	4	Gonzalez, Heller 1996, and IARC 2010 and
5	any different. The I can't	5	IARC 2012.
6	think of anything that was outside	6	Is that correct?
7	of this data that I reviewed for	7	MS. CURRY: Object to form.
8	this case that I had not seen	8	THE WITNESS: No. You're
9	prior.	9	you're piquing my memory of
10	My testimony today is that	10	this of this because I
11	my opinion about the causal	11	realize I only have two pages of
12	relationship of tale and ovarian	12	it.
13	cancer preceded my involvement in	13	But repeatedly the counsel
14	Ingham. And your question asked	14	who was taking my deposition
15	me, or you stated in your question	15	attempted to limit, as you are
16	that my opinion was developed	16	defining them, as key pieces of
17	during Ingham, or that was my	17	information. My my opinion was
18	understanding of your question.	18	based on the totality of all the
19	And that's all I was trying to	19	data.
20	clarify.	20	That that answer just did
21	BY MS. GARBER:	21	not seem acceptable at the time,
22	Q. Your universe of the data	22	and there was this attempt to
23	that you relied on in the Ingham matter	23	constantly drill down to me
24	consisted of 61 published studies	24	identifying a few studies that I
	Page 47		Page 49
1	provided to you by counsel for J&J.	1	could say were important, but I
2	MS. CURRY: Object to the	2	repeatedly said then and I imagine
3	form.	3	I'll maybe have to do that again
4	BY MS. GARBER:	4	today, that it is the totality of
5	Q. Right?	5	the data that led me to my
6	A. To be honest, some of the	6	opinion.
7	materials I found on my own. Some of it	7	The universe, I believe, as
8	was provided by J&J.	8	you like to call it.
9	And again, I I don't know	9	BY MS. GARBER:
10	if you mean to be doing this, but I just	10	Q. The totality of the evidence
11	want to clarify. If I read some of this	11	that formulated the opinions in this
12	material years ago and had come to an	12	matter are listed in the reference list
13	independent opinion about this, and then	13	of lists of your expert report, which
	The Alikanain Thank Timekanan	14	is dated February 25, 2019, and the
14	I read it again, I don't I just want		
15	to clarify, that my opinion is not being	15	supplemental reference list.
15 16	to clarify, that my opinion is not being made during that case.	15 16	supplemental reference list. Is that a true statement?
15 16 17	to clarify, that my opinion is not being made during that case. Q. The 61 studies that were	15 16 17	supplemental reference list. Is that a true statement? MS. CURRY: Object to the
15 16 17 18	to clarify, that my opinion is not being made during that case.	15 16 17 18	supplemental reference list. Is that a true statement?
15 16 17 18 19	to clarify, that my opinion is not being made during that case. Q. The 61 studies that were reflected on a reference list were the universe of studies that formed your	15 16 17 18 19	supplemental reference list. Is that a true statement? MS. CURRY: Object to the form. THE WITNESS: That's a true
15 16 17 18 19 20	to clarify, that my opinion is not being made during that case. Q. The 61 studies that were reflected on a reference list were the universe of studies that formed your opinion in the Ingham case, correct?	15 16 17 18 19 20	supplemental reference list. Is that a true statement? MS. CURRY: Object to the form.
15 16 17 18 19 20 21	to clarify, that my opinion is not being made during that case. Q. The 61 studies that were reflected on a reference list were the universe of studies that formed your opinion in the Ingham case, correct? A. Yes.	15 16 17 18 19 20 21	supplemental reference list. Is that a true statement? MS. CURRY: Object to the form. THE WITNESS: That's a true statement, but there I I did also read the expert reports of
15 16 17 18 19 20 21 22	to clarify, that my opinion is not being made during that case. Q. The 61 studies that were reflected on a reference list were the universe of studies that formed your opinion in the Ingham case, correct? A. Yes. Q. Thank you.	15 16 17 18 19 20 21 22	supplemental reference list. Is that a true statement? MS. CURRY: Object to the form. THE WITNESS: That's a true statement, but there I I did also read the expert reports of others involved in the case. And
15 16 17 18 19 20 21	to clarify, that my opinion is not being made during that case. Q. The 61 studies that were reflected on a reference list were the universe of studies that formed your opinion in the Ingham case, correct? A. Yes.	15 16 17 18 19 20 21	supplemental reference list. Is that a true statement? MS. CURRY: Object to the form. THE WITNESS: That's a true statement, but there I I did also read the expert reports of

PageID: 193736 Kevin Holcomb, M.D.

	Page 50		Page 52
1	So I I'd have to say I	1	
2	came across more than than just	2	that I reviewed the other experts' reports and the literature that
3	what was in my reference list in	3	they were basing their opinions
4	my preparation.	4	on, I did in some cases.
5	BY MS. GARBER:	5	BY MS. GARBER:
6		6	
	Q. And in regard to what you	7	Q. Doctor, you understand that I am entitled to know the materials that
7	just said, reading other experts' reports	1	
8	that were involved in the case, is it	8	you read, reviewed and relied upon in
9	true that you read the experts' report,	9	formulating your opinions. You
10	but did not read the underlying studies	10	understand that, right?
11	that were referenced in that given expert	11	A. Yes.
12	report?	12	MS. CURRY: I can possibly
13	A. No.	13	clarify
14	MS. CURRY: Object to the	14	MS. GARBER: I don't
15	form.	15	MS. CURRY: the issue if
16	THE WITNESS: That's exactly	16	it's helpful.
17	the opposite of what I'm saying.	17	MS. GARBER: Let me let
18	I'm saying at times I would read	18	me just finish this line of
19	something in an expert report that	19	questioning, Ms. Curry. Thank you
20	piqued my interest, and I would go	20	very much.
21	back and pull that paper and read	21	BY MS. GARBER:
22	the paper.	22	Q. And, Doctor, is it your
23	BY MS. GARBER:	23	testimony that aside from the reference
24	Q. And then you didn't list it	24	lists that are attached to your expert
	Page 51		Page 53
1			
	on vour reterence list?	1 1	report and the supplemental materials
	on your reference list?	1 2	report and the supplemental materials,
2	MS. CURRY: Object to the	2	that there are papers that you have
2	MS. CURRY: Object to the form.	2	that there are papers that you have reviewed that are not listed there?
2 3 4	MS. CURRY: Object to the form. THE WITNESS: It was not	2 3 4	that there are papers that you have reviewed that are not listed there? MS. CURRY: Object to the
2 3 4 5	MS. CURRY: Object to the form. THE WITNESS: It was not part of my expert report. My	2 3 4 5	that there are papers that you have reviewed that are not listed there? MS. CURRY: Object to the form.
2 3 4 5 6	MS. CURRY: Object to the form. THE WITNESS: It was not part of my expert report. My expert report had already been	2 3 4 5 6	that there are papers that you have reviewed that are not listed there? MS. CURRY: Object to the form. THE WITNESS: I would have
2 3 4 5 6 7	MS. CURRY: Object to the form. THE WITNESS: It was not part of my expert report. My expert report had already been completed.	2 3 4 5 6 7	that there are papers that you have reviewed that are not listed there? MS. CURRY: Object to the form. THE WITNESS: I would have to review my reference list and
2 3 4 5 6 7 8	MS. CURRY: Object to the form. THE WITNESS: It was not part of my expert report. My expert report had already been completed. BY MS. GARBER:	2 3 4 5 6 7 8	that there are papers that you have reviewed that are not listed there? MS. CURRY: Object to the form. THE WITNESS: I would have to review my reference list and see what's on there. Or all the
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PageID: 193737 Kevin Holcomb, M.D.

Ms. Curry. Maybe you can clarify. Ms. CURRY: Just to clarify, we have on the supplemental list, in addition to the expert reports, the deposition transcripts and exhibits to the depositions, and so I believe that the additional articles that would have been reviewed by Dr. Holcomb are included in those exhibits. Ms. GARBER: I see. So what I'm supposed to do is I'm supposed to go pull the deposition, and pull the exhibits and then move those forward to the reference for those forward to the reference Ms. CURRY: It's the deposition that you actually took of Dr. Saenz, the exhibits that you presented to her in its as supplem A. A. A. A. A. A. A. A. A. A	How was what? MS. CURRY: Object to the n. GARBER: The supplemental reference The lawyers asked me, was ything else that I had reviewed, at gave them a list of which had reviewed.
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7 exhibits to the depositions, and 8 so I believe that the additional 9 articles that would have been 10 reviewed by Dr. Holcomb are 11 included in those exhibits. 11 12 MS. GARBER: I see. So what 13 I'm supposed to do is I'm supposed 14 to go pull the deposition, and 15 pull the exhibits and then move 16 those forward to the reference 17 list to understand his library? 18 MS. CURRY: It's the 19 deposition that you actually took 20 of Dr. Saenz, the exhibits that 21 to prepar	No. How was it that that was l? How was what? MS. CURRY: Object to the n. GARBER: The supplemental reference The lawyers asked me, was ything else that I had reviewed, at gave them a list of which had reviewed. Thank you. What did you do
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of Dr. Saenz, the exhibits that 20 Q. 21 you presented to her in its 21 to prepare	Thank you. What did you do
you presented to her in its 21 to prepar	
J 1	re for logav's deposition?
	I reviewed the epidemiologic
	n talc, and in some cases just
24 powder	use and ovarian cancer.
Page 55	Page 57
1 BY MS. GARBER: 1 I	looked at the basic
2 Q. And which of those papers, 2 science p	apers, some that addressed
	stic questions.
4 which of those strike that. 4	looked at some of the
5 Which of those exhibits 5 basic science	ence papers on theories of
6 after reading Dr. Saenz's deposition did 6 carcinoge	
	reviewed that's pretty
	I pretty much went through that
	iterature, so
	The epidemiological
	that you looked at appear on
	ence lists that are attached to
· · · · · · · · · · · · · · · · · · ·	ert report and the supplemental
	e list that was just produced?
15 one of them? 15 A.	
	And when you say the basic
	n mechanism of carcinogenicity,
	a are those?
, i	MS. CURRY: Object to the
20 the supplemental reference list that was 20 form	
11	
	MS. SHARKO: Can you keep
3	voice a little louder,
1	
THE WITNESS: I don't know. 24	MS. GARBER: Sure.

PageID: 193738 Kevin Holcomb, M.D.

	Page 58		Page 60
1	MS. SHARKO: Thank you.	1	from the time that you were retained by
2	THE WITNESS: Could you	2	Johnson & Johnson in the MDL through
3	repeat the question as well.	3	today's deposition, you prepared about
4	BY MS. GARBER:	4	90 hours?
5	Q. The basic science with	5	MS. CURRY: Object to the
6	regard to mechanism of carcinogenicity,	6	form.
7	what specific studies are those?	7	THE WITNESS: That's true.
8	MS. CURRY: Object to the	8	BY MS. GARBER:
9	form.	9	Q. And your pay rate is \$850 an
10	THE WITNESS: I don't	10	hour?
11	remember the specific studies	11	A. That's true.
12	because most of that came from	12	Q. Doctor, in the Ingham case,
13	reviewing other experts' expert	13	it was your opinion that occupational
14	reports.	14	exposure to asbestos couldn't cause
15	BY MS. GARBER:	15	ovarian cancer; is that correct?
16	Q. Do those studies that you	16	MS. CURRY: Object to the
17	reviewed in connection with preparation	17	form.
18	for your deposition appear on the	18	THE WITNESS: Yes.
19	reference lists that you have produced?	19	BY MS. GARBER:
20	A. Again, in those cases I	20	Q. And is that still your
21	wasn't pulling the whole paper. I was	21	opinion today?
22	just reading expert reports. So no, it's	22	A. As with my deposition at the
23	not.	23	time of Ingham, I was quoting IARC's
24	Q. When you say science with	24	monograph on the topic. And also offered
	Page 59		Page 61
1	regard to basic science with regard to	1	some critiques of that finding, which
2	carcinogens, the theories of carcinogens,	2	included concerns about
3	that would be your same answer as the	3	misclassification, concerns about whether
4	prior one; it was in the context of	4	environmental exposures really supported
5	reading expert reports?	5	the findings or not. And so, you know, I
6	A. That's true.	6	spent quite a bit of time in the Ingham
7	Q. How many hours did you	7	deposition going through this. But I
8	prepare for today's deposition?	8	accepted IARC's findings.
9	A. Do you mean from the	9	Q. So my question is a little
10	beginning of my engagement in the MDL or?	10	narrower.
11	Q. Specifically in connection	11	A. Mm-hmm.
12	with just getting ready for today. I'm	12	Q. Is it your opinion today
13	going to get to that, Doctor. And thanks	13	that occupational exposure to asbestos
14	for the clarification.	14	can cause ovarian cancer?
15	But just with regard to	15	A. In my it's my opinion
16	preparing for today's deposition.	16	that based on the five heavy occupational
17	A. I'm not sure I asked you	17	exposure papers cited in that IARC
18	if there was a difference. But I guess	18	monograph, that in those specific
19	in essence there really isn't. I've been	19	situations, yes, those exposures did
20	preparing for this deposition from the	20	contribute to ovarian cancer.
21	beginning of my engagement.	21	Q. Doctor, did you testify in
22	So I would say probably	22	Ingham that occupational exposure to
23	about 90 hours.	23	asbestos can cause ovarian cancer?
24	Q. So is it your testimony that	24	MS. CURRY: Object to the
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PageID: 193739 Kevin Holcomb, M.D.

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	Page 62		Page 64
1	form.	1	in that situation, because the
2	THE WITNESS: Again, if I	2	question is so broad to say in an
3	did, it's to the degree of I	3	occupational setting. And I only
4	I don't have any opinion outside	4	have data on a few different
5	of the literature that I read on	5	settings where it was shown. And
6	the topic. And the only	6	so I'm going to restrict my
7	literature I've read on the topic	7	opinion to the data I've read, and
8	are those five papers cited in the	8	the data I've read on those
9	monograph. So if I said it during	9	specific occupational settings.
10	Ingham, it's based on the same	10	BY MS. GARBER:
11	data that I'd be saying it based	11	Q. So, Doctor, I'm going to
12	on today.	12	mark as Exhibit 3
13	BY MS. GARBER:	13	(Document marked for
14		14	identification as Exhibit
15	Q. Was it your testimony that	15	
16	occupational exposure to asbestos can cause ovarian cancer?	16	Holcomb-3.) BY MS. GARBER:
17		17	
	MS. CURRY: Object to the	l	Q prior deposition
18	form.	18	testimony in the Ingham matter.
19	THE WITNESS: I believe so.	19	Doctor, this was deposition
20	BY MS. GARBER:	20	testimony from May 7, 2018, right?
21	Q. And is it your opinion today	21	A. Yes.
22	that occupational exposure to asbestos	22	Q. And if you turn to Page 103,
23	can cause ovarian cancer?	23	Lines 7 through 19, it reads:
24	MS. CURRY: Object to the	24	"Question: Do you believe
	Page 63		Page 65
1	form.	1	that asbestos exposure can cause ovarian
2	THE WITNESS: Once again,	2	cancer?"
3	it's my opinion that occupational	3	And your answer is: "Yes.
4	exposure in those settings as	4	We did go over this before and I do
	described in the IARC monograph,	5	believe that occupational exposure to
5 6	which would be, you know, the	6	asbestos can cause ovarian cancer."
7	the women who participated in gas	7	And it goes on to say: "Is
8	mask productions, or cement	8	that because you believe that asbestos
9	factories in pre-World War II	9	fibers in the ovaries increases the risk
10	Italy, and in those specific	10	of developing ovarian cancer?"
11	situations, yes, I think that	11	And your answer was: "I
12	there's enough evidence to deduce	12	have no idea of the mechanism by which it
13	that that exposure increased	13	could occur."
14	the risk of ovarian cancer.	14	Is that still your testimony
15	BY MS. GARBER:	15	today?
16	Q. So if I asked you in any	16	MS. CURRY: Object to the
17	hearing, Doctor, can occupational	17	form. And to showing one page of
18	exposure to asbestos cause ovarian	18	the deposition transcript.
19	cancer, and I asked you for a yes or no	19	MS. GARBER: I don't think
20		20	we're going to have any speaking
21	question, would the answer be yes?	20	
	MS. CURRY: Object to the	22	objections here today, Ms. Curry.
22 23	form.	1	I MS CURRY: It's just
	THE WITNESS: I don't think	23	MS. CURRY: It's just
		24	_
24	you can ask a yes or no question	24	you're he's referring back to

Kevin Holcomb, M.D.

Page 66 Page 68 1 testimony and you're not showing 1 that occupational exposure to asbestos 2 him the prior testimony. 2 can cause cancer. 3 3 MS. GARBER: As you well A. Are you -know, Ms. Curry, the proper 4 4 Q. That's your --MS. CURRY: Same objections. 5 objection is, "Objection to form." 5 6 6 MS. SHARKO: I think she's BY MS. GARBER: 7 7 doing fine. Q. That's your answer, right? 8 A. My answer has a piece of it MS. GARBER: I'm sure you 8 9 9 that you can't, or don't, or you're not do. 10 BY MS. GARBER: 10 interested in. And I think it's just as 11 important as the part that you're Q. Go ahead, Doctor. 11 12 A. So, in my answer I said yes, 12 focusing on that says yes, we did go over 13 we did go over this before, which sort of 13 this before. supports the conversation I was saying 14 14 I'd be happy to go through 15 without all the things I said before, you 15 the entire transcript of this area. I 16 don't know how to interpret that. 16 think you'll find what I'm referring to 17 But I know what -- how to 17 as being consistent, that I was trying to 18 interpret that. It's what I'm just say that my opinions about exposure in 18 saying, we had gone over this multiple 19 19 the occupational setting was restricted 20 times being asked the same question, to the few occupational settings that 20 21 similar to what's happening now. And I 21 were defined in the IARC monograph. And 22 kept restricting it to not stepping 22 that is what I'm trying to tell you now. outside of -- and -- and this is a common 23 23 Because I said we've gone 24 theme that I think we're going to revisit 24 through this before, I'm referring to Page 67 Page 69 1 over and over today. 1 those qualifications. 2 This idea of making comments 2 Q. I'm just trying to get your 3 and conclusions that go outside of the 3 opinions here today. You understand 4 specific findings of your studies, and 4 that, right? purists and careful clinicians and 5 5 A. I don't. I don't. I don't 6 scientists don't do that. And so if you 6 think so. Because my opinion on this is 7 ask me does any occupational exposure 7 so clear that I believe that if you're 8 increase your risk of asbestos, how would 8 making gas masks in a World War II, or I know? I only have a body of literature 9 pre-World War II or during World War II 9 that looks at specific situations. And factory, or if you're mixing cement in 10 10 that's the only situation that I'm going 11 11 Italy around the same time, that I'd be 12 to speak to -- speak about. 12 concerned about your risk of ovarian 13 So when I said yes, we did 13 cancer. 14 go over this before, that's because this 14 Outside of those specific 15 was about who knows how many times I had 15 situations, I don't have an opinion. been asked the same question with the 16 O. You've read the IARC 16 17 same answer. 17 monograph from 2012 with regard to 18 MS. GARBER: Objection. 18 asbestos, right? Motion to strike as nonresponsive. 19 19 A. Yes. Q. And, in fact, it's on your 20 BY MS. GARBER: 2.0 21 Q. Doctor, you answered to the 21 reference list in this matter? 22 question, do you believe that asbestos 22 A. Yes. 23 exposure can cause ovarian cancer, yes. 23 Q. And, Doctor, do you think We did go over this. And I do believe 24 24 that the IARC 2002 monograph limits risk

	Page 70		Page 72
1	of ovarian cancer to occupational	1	I just got. So I apologize.
2	exposure?	2	BY MS. GARBER:
3	MS. CURRY: I believe you	3	Q. Doctor, if you could turn to
4	mean IARC 2012. And objection to	4	Page 219 of the monograph. And, Doctor,
5	form.	5	you can look up here. It will go quicker
6	MS. GARBER: Thank you.	6	this way if you just
7	BY MS. GARBER:	7	A. I'd rather look at it, if
8	Q. So I'll redo that question.	8	that's okay.
9	Doctor, do you think the	9	You said 219. Oh.
10	IARC monograph of 2012 limits risk of	10	Q. Yeah. Why don't you just
11	ovarian cancer to occupational exposure?	11	look up here. I'm just going to read
12	MS. CURRY: Object to the	12	something.
13	form.	13	219, it says, exposure data,
14	THE WITNESS: I'm telling	14	identification of the agent.
15	you my my opinion, which is	15	A. 219 but what I saw at the
16	what I think you're trying to get	16	back.
17	at, is that the only data on	17	Q. Doctor, if you can just look
18	occupational exposure that showed	18	up here.
19	an increased risk of ovarian	19	MS. CURRY: I'm sorry. The
20	cancer were those same specific	20	exhibit that you just handed him
21	settings that I am mentioning to	21	does not have a Page 219, is the
22	you. And so my personal opinion	22	problem.
23	is that I can only speak towards	23	THE WITNESS: So I just I
24	the relationship of asbestos	24	just want to make sure that what
	Page 71		Page 73
1	exposure in an occupational	1	you've given me is what you're
2	setting and ovarian cancer with	2	reading.
3	regard to those specific settings.	3	MS. GARBER: Yeah, that's
4	(Document marked for	4	fine.
5	identification as Exhibit		
		5	BY MS. GARBER:
6	Holcomb-4.)	5 6	Q. Why don't you just look up
6 7	BY MS. GARBER:		Q. Why don't you just look up here at the Elmo.
7 8		6	Q. Why don't you just look up
7	BY MS. GARBER:	6 7	Q. Why don't you just look up here at the Elmo.A. Are we looking at the same thing?
7 8 9 10	BY MS. GARBÉR: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals,	6 7 8 9 10	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it
7 8 9 10 11	BY MS. GARBÉR: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human	6 7 8 9 10 11	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break.
7 8 9 10 11	BY MS. GARBÉR: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens."	6 7 8 9 10 11 12	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor
7 8 9 10 11 12 13	BY MS. GARBÉR: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens." And I apologize. I don't	6 7 8 9 10 11 12 13	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor wants a paper copy, number one
7 8 9 10 11 12 13	BY MS. GARBÉR: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens." And I apologize. I don't have a full copy of this with me.	6 7 8 9 10 11 12 13 14	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor wants a paper copy, number one he's allowed to have it, and
7 8 9 10 11 12 13 14	BY MS. GARBÉR: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens." And I apologize. I don't have a full copy of this with me. A. Sure. Thank you.	6 7 8 9 10 11 12 13 14 15	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor wants a paper copy, number one he's allowed to have it, and number two
7 8 9 10 11 12 13 14 15	BY MS. GARBÉR: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens." And I apologize. I don't have a full copy of this with me. A. Sure. Thank you. MS. SHARKO: Do you have a	6 7 8 9 10 11 12 13 14 15 16	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor wants a paper copy, number one he's allowed to have it, and number two MS. GARBER: Well, you
7 8 9 10 11 12 13 14 15 16 17	BY MS. GARBER: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens." And I apologize. I don't have a full copy of this with me. A. Sure. Thank you. MS. SHARKO: Do you have a copy for us?	6 7 8 9 10 11 12 13 14 15 16 17	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor wants a paper copy, number one he's allowed to have it, and number two MS. GARBER: Well, you you have one.
7 8 9 10 11 12 13 14 15 16 17	BY MS. GARBER: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens." And I apologize. I don't have a full copy of this with me. A. Sure. Thank you. MS. SHARKO: Do you have a copy for us? MS. GARBER: That's what I	6 7 8 9 10 11 12 13 14 15 16 17	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor wants a paper copy, number one he's allowed to have it, and number two MS. GARBER: Well, you you have one. MS. SHARKO: I'm three
7 8 9 10 11 12 13 14 15 16 17 18	BY MS. GARBÉR: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens." And I apologize. I don't have a full copy of this with me. A. Sure. Thank you. MS. SHARKO: Do you have a copy for us? MS. GARBÉR: That's what I just said, Ms. Sharko. I	6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor wants a paper copy, number one he's allowed to have it, and number two MS. GARBER: Well, you you have one. MS. SHARKO: I'm three seats closer to the screen, and I
7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MS. GARBÉR: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens." And I apologize. I don't have a full copy of this with me. A. Sure. Thank you. MS. SHARKO: Do you have a copy for us? MS. GARBÉR: That's what I just said, Ms. Sharko. I apologize. I don't have a full	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor wants a paper copy, number one he's allowed to have it, and number two MS. GARBER: Well, you you have one. MS. SHARKO: I'm three seats closer to the screen, and I can't even read that.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MS. GARBÉR: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens." And I apologize. I don't have a full copy of this with me. A. Sure. Thank you. MS. SHARKO: Do you have a copy for us? MS. GARBÉR: That's what I just said, Ms. Sharko. I apologize. I don't have a full copy. I have a page that I'm	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor wants a paper copy, number one he's allowed to have it, and number two MS. GARBER: Well, you you have one. MS. SHARKO: I'm three seats closer to the screen, and I can't even read that. MS. GARBER: You have one,
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MS. GARBÉR: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens." And I apologize. I don't have a full copy of this with me. A. Sure. Thank you. MS. SHARKO: Do you have a copy for us? MS. GARBER: That's what I just said, Ms. Sharko. I apologize. I don't have a full copy. I have a page that I'm going to question him from, but	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor wants a paper copy, number one he's allowed to have it, and number two MS. GARBER: Well, you you have one. MS. SHARKO: I'm three seats closer to the screen, and I can't even read that. MS. GARBER: You have one, right?
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MS. GARBER: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens." And I apologize. I don't have a full copy of this with me. A. Sure. Thank you. MS. SHARKO: Do you have a copy for us? MS. GARBER: That's what I just said, Ms. Sharko. I apologize. I don't have a full copy. I have a page that I'm going to question him from, but not all the pages.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor wants a paper copy, number one he's allowed to have it, and number two MS. GARBER: Well, you you have one. MS. SHARKO: I'm three seats closer to the screen, and I can't even read that. MS. GARBER: You have one, right? MS. SHARKO: So I don't know
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MS. GARBÉR: Q. I'm going to mark as Exhibit 4 the IARC monograph of 2012 Volume 100-C, titled "Arsenic, Metals, Fibres, and Dust: A Review of Human Carcinogens." And I apologize. I don't have a full copy of this with me. A. Sure. Thank you. MS. SHARKO: Do you have a copy for us? MS. GARBER: That's what I just said, Ms. Sharko. I apologize. I don't have a full copy. I have a page that I'm going to question him from, but	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Why don't you just look up here at the Elmo. A. Are we looking at the same thing? Q. Yes. Yes. I will cure it on the break. MS. SHARKO: If the doctor wants a paper copy, number one he's allowed to have it, and number two MS. GARBER: Well, you you have one. MS. SHARKO: I'm three seats closer to the screen, and I can't even read that. MS. GARBER: You have one, right?

PageID: 193742 Kevin Holcomb, M.D.

	KCVIII IIOI	,	
	Page 74		Page 76
1	MS. CURRY: This is the one	1	this monograph about asbestos and its
2	page. I have the full.	2	carcinogenic risks apply to these six
3	THE WITNESS: Okay. So	3	types of fibers wherever they are found."
4	BY MS. GARBER:	4	And I'm going to assume that the
5	Q. So at Page 219, Doctor, do	5	conclusions are going to be based on the
6	you see that it says asbestos, and then	6	studies that they cite.
7	it lists the different fibers, correct?	7	Q. Doctor, we don't want to
8	The different types of asbestos?	8	make conclusions. My question is, does
9	A. I don't know can you	9	that what the monograph say?
10	please	10	A. That's what the monograph
11	Q. The title. The title.	11	Q. Did I read that correctly?
12	A. Yes.	12	A. You read the monograph
13	Q. The top.	13	correctly.
14	A. The correct.	14	Q. And I have no further
15	Q. All right. And then under	15	question for you.
16	exposure data, Number 1, it says,	16	MS. GARBER: Motion to
17	"Identification of the agent."	17	strike everything besides saying
18	Do you see that?	18	yes, that's what it says.
19	A. Yes.	19	MS. SHARKO: Does that mean
20	Q. And then about halfway	20	that we're done for today?
21	through the paragraph, it says, "The	21	BY MS. GARBER:
22	conclusions reached in this monograph	22	Q. Doctor, is that what the
23	about asbestos and its carcinogenic	23	monograph says on Page 219?
24	risk"	24	A. That's what the monograph
	Page 75		Page 77
1	A. I'm sorry. I'm still just	1	says. I disagree with that. Yes.
2	getting up to where you are.	2	Q. Okay. What part do you
3	Q. Just look just look up at	3	disagree with?
4	here, Doctor.	4	MS. CURRY: Object to the
5	A. Ma'am, if it's okay with	5	form.
6	you, we went through the trouble to get	6	THE WITNESS: I think I
7	this because it's easier for me to see.	7	was getting at this before, and I
8	I'm going to use this if you just bear	8	think that a lot of what we're
9	with me.	9	going to get into today makes that
10	Q. Okay. Well, then you can	10	same mistake. You can't make
11	look up here to see where I'm reading.	11	conclusions about things that you
12	A. I've got you.	12	haven't studied. And if you only
13	Q. Okay. "The conclusions	13	study a certain setting, and
14	reached in this monograph about asbestos	14	you're able to show that in this
15	and its carcinogenic risks apply to these	15	setting it causes ovarian cancer,
16	six types of fibers wherever they are	16	how can you reliably expand that
17	found, and that includes talc containing	17	finding to situations that you've
18	asbestiform fibers."	18	never even looked at?
19	Correct? Is that what it	19	And I don't care if IARC
20	says?	20	puts it in writing and says they
21	A. That's what it says.	21	are going to do that. The
22	Q. Doctor, that's my only	22	question is, do I accept that? Do
23	question. Is that what it says?	23	I accept that if you show me that
24	A. "The conclusions reached in	24	it causes cancer if you're making
24		24	it causes cancer if you're making

PageID: 193743 Kevin Holcomb, M.D.

	Page 78		Page 80
1	gas masks, that means it causes	1	settings where they found that
2	cancer in any other situation.	2	it's associated with, there are
3	I think that's clearly is	3	weaknesses in their findings. To
4	what IARC said they did. I think	4	extend that definition outside to
5	that's a problem. And I already	5	any occupational exposure that
6	explained to you some of the other	6	they haven't examined, I think is
7	issues that I have with IARC. I	7	problematic.
8	mean, we all can make mistakes.	8	BY MS. GARBER:
9	There's other issues with IARC. I	9	Q. Doctor, what was my
10	mean, the studies, even in the	10	question?
11	ones that I accept, there's	11	A. Did IARC make that
12	misclassification issues.	12	statement, and I said yes.
13	In fact, if you look at the	13	Q. Thank you.
14	studies where they do pathologic	14	MS. GARBER: Motion to
15	confirmation, the increased risk	15	strike everything besides that.
16	is attenuated to the baseline.	16	MS. SHARKO: Well, that
17	And so, you know, part of my	17	wasn't the question you asked.
18	being able to give my opinion here	18	BY MS. GARBER:
19	is my years of practice. And I've	19	Q. Doctor, you disagree
20	had the experience of debulking	20	MS. CURRY: He answered your
21	somebody who I thought had ovarian	21	question.
22	cancer who ended up having	22	MS. O'DELL: All right,
23	mesothelioma.	23	Susan. We went over this
24	So I know the difficulties	24	earlier I think not earlier
21	50 I know the difficulties	24	carner I tillink not carner
	Page 79		Page 81
1	in being able to tell the	1	this week, last week. I think
2	difference between the two.	2	Dawn is doing the objections.
3	BY MS. GARBER:	3	There's no need for you to add the
4	Q. Doctor, I'm going to get to	4	commentary.
5	your report.	5	MS. SHARKO: Well, why
6	MS. CURRY: Were you	6	why are you talking if it's one
7	finished with your response?	7	lawyer per side? You should have
8	THE WITNESS: No.	8	been there yesterday when you had
9	And I'm also aware that, you	9	three people on your side talking
10	know, there was not even a	10	at us.
11	diagnosis code for malignant	11	MS. O'DELL: Well, I
12	mesothelioma at a time that an	12	can't can't speak to yesterday.
13	international diagnosis code, an	13	But we've had this discussion, you
14	ICD-9 code for mesothelioma during	14	and I, and
15	this time.	15	MS. CURRY: As the person
16	And I'm sure that the	16	making objections, I do want to
17	immunohistochemical test that	17	put on the record that the
18	helped to distinguish between	18	question that was asked was what
19	ovarian cancer and primary	19	part of of IARC do you disagree
20	peritoneal cancer and malignant	20	with, and so Dr. Holcomb's
21	mesothelioma were not developed at	21	response was directly responsive
22	that time.	22	to that question.
23	So, yes, I take IARC at what	23	Thank you.
24	they're saying. But even in the	24	•

Kevin Holcomb, M.D.

Page 84 Page 82 1 1 BY MS. GARBER: it says. 2 Q. Doctor, we will get to your 2 It says, "Consumer products, report and what you say about asbestos. e.g., cosmetic, pharmaceuticals, are the 3 3 primary sources of exposure to talc for 4 My question was simply, 4 5 Number 1, at Page 219 where I read: "Is 5 the general population. Inhalation and that what the monograph says?" dermal contact through" -- "i.e., through 6 6 7 7 And I think your testimony perineal application of talcum powders, 8 was, yes, that's what the monograph says, 8 are the primary routes of exposure." 9 9 Did I read that correctly? correct? 10 10 A. That's what the monograph A. Yes. 11 11 Q. So that is indicating that says. 12 O. All right. And then I 12 talcum powder products and exposure in wanted to show you next at Page 232 with the general population, correct? 13 13 regard to your testimony about the 14 14 MS. CURRY: Object to form. populations? 15 15 BY MS. GARBER: 16 A. I'm sorry. 16 Q. That's on Page 232? A. I -- I just want to -- I 17 O. 232 --17 A. 232, right. know we're only picking out this one page 18 18 19 Q. -- under human exposure. 19 to read, but it's a little confusing to 20 A. This is the --20 me since we had started reading a 21 O. Are you there? 21 monograph on asbestos and this seems to A. I'm just a little confused, be dealing with talc. 2.2 22 23 because this is talking about talc. And 23 So I turn one page back. 24 we were talking about asbestos. 24 This is a section on talc containing Page 83 Page 85 asbestiform fibers. 1 Are we in the same --1 2 O. Are you --2 So this area that we are 3 3 A. I think I'm in a talking about -- I -- I don't know if 4 4 they are talking about -- what -- I'm a different --5 little unclear of what they are talking 5 Q. -- are you on Page 232? 6 A. Yes, but I don't know if I'm 6 about here, with the general -- are they 7 reading the same thing you are. You are 7 talking about asbestiform fibers? Are they talking about -- I'm not sure. 8 talking about the monograph on --8 9 9 Q. On asbestos. Q. Let me see if I can help 10 A. Right. I think I'm in the 10 you. 11 Thank you. 11 wrong --Q. So turning back to 219. 12 Q. No, that is -- that is --12 13 A. This is the right one? Oh, 13 14 2012. So this is the one. Where the monograph says, 14 15 "The conclusions reached by the monograph 15 Q. Okay. Doctor, under 1.6.5, it says, "Human Exposure"? 16 about asbestos and its carcinogenic risks 16 17 A. Yeah. 17 apply to these six types of fibers Q. And then it indicates wherever they are found -- thereby 18 18 meaning asbestos -- and that includes "Exposure of the General Population." 19 19 talc containing asbestiform fibers." 20 Is that the heading? 20 21 A. Exposure of the general 21 So this monograph applies to both talc containing asbestiform fibers, 22 population. And it's -- yeah, exposure 22 to talc for the general population. 23 23 and asbestos. 24 Q. Okay. Well, let's read what 24 You understand that,

	Page 86		Page 88
1	correct?	1	testifying a bit ago, right?
2	A. This goes to the question of	2	A. That's true.
3	what I disagree with, because what you're	3	Q. All right. But it goes on,
4	saying is that if they study asbestos in	4	doesn't it, Doctor? It says, "The
5	these heavy occupational exposures, that	5	conclusion received" "the conclusion
6	means you should then extend these	6	received additional support from studies
7	findings to other clinical settings	7	showing that women and girls with
8	outside of that. And so yes, I get	8	environmental, but not occupational
9	what you're saying and that's exactly	9	exposure to asbestos," right?
10	what I was saying I disagreed with.	10	A. This is what I was
11	Q. Do you I guess I don't	11	maybe maybe it wasn't clear what I was
12	know what your what your opinion is,	12	referring to when you asked me earlier
13	so I'll ask it.	13	what I disagreed with.
14	You understand that this	14	And I talked about the
15	monograph from 2012 applies to asbestos	15	limitations of the IARC monograph. I
16	and asbestiform talc, you understand	16	mentioned this issue, that they'll make
17	that, right?	17	these statements and then they give you a
18	A. Yes.	18	couple of papers to go look at; Ferante,
19	Q. Thank you.	19	et al., and Reid, et al.
20	Doctor, in your expert	20	When you go back and you
21	report and just a minute ago, you were	21	look at those studies, they actually come
22	talking about the misdiagnosis of ovarian	22	to the exact opposite conclusion, that
23	cancer and peritoneal mesothelioma. Do	23	women in those settings did not have an
24	you recall that?	24	increased risk of ovarian cancer. And
	Page 87		Page 89
1	A. I said misclassification.	1	yet the IARC authors say that their
2	Q. Okay. And, we'll turn to	2	findings were supported. So they have
3	that part of your expert report in a bit.	3	five strong studies showing an increased
4	But since you brought it up, if you could	4	risk of ovarian cancer. Two studies
5	turn to Page 356 of the monograph.	5	in in environmental settings that show
6	A. Sand and gravel?	6	no increases of ovarian cancer come to
7	Q. It's did I say three?	7	the conclusion that that is not a
8	A. You said 356, sand and	8	discrepancy, it's actually in support of.
9	gravel.	9	And I am supposed to read
10	Q. 256. I apologize.	10	this and agree with that.
11	A. Okay.	11	Q. You disagree with IARC and
12	Q. Okay. If you look at the	12	their findings with regard
13	right-hand column. We'll we'll start	13	A. No, and if they regard
14	with the first full paragraph which reads	14	Q. Hold on, Doctor.
15	the working group are we together?	15	A. Yes. Okay.
16	A. Yes.	16	Q. You disagree with IARC and
17	Q. Okay. "The working group	17	their findings with regard to asbestos
18	noted that a causal association between	18	and asbestiform talc and its
19	exposure to asbestos and cancer of the	19	carcinogenicity as it relates to the
20	ovary was clearly established based on	20	ovary, correct?
	five strongly positive cohort mortality	21	MS. CURRY: Object to the
21		22	form.
22	studies of women with heavy occupational		
22 23	exposure."	23	THE WITNESS: My opinion
22			

PageID: 193746 Kevin Holcomb, M.D.

	Page 90		Page 92
1	opinions about the carcinogenicity	1	form.
2	of asbestos with ovarian cancer to	2	THE WITNESS: I believe I
3	the settings where it was shown to	3	have. I'm disagreeing with you.
4	increase ovarian cancer.	4	BY MS. GARBER:
5	If you ask me about settings	5	Q. Because
6	where the studies explicitly show	6	A. I'm saying
7	it did not increase ovarian	7	Q. Because you
8	cancer, I don't accept that it	8	A because I reviewed
9	increases ovarian cancer in those	9	IARC
10	situations.	10	MS. CURRY: Sorry. You
11	I don't understand how a	11	can't talk over one another.
12	reasonable person could. If you	12	Do you want to finish your
13	read a study that says it did not	13	response?
14	increase risk of ovarian cancer in	14	THE WITNESS: My
15	a situation, why would you then	15	understanding is that IARC,
16	conclude that it does?	16	because so many other groups rely
17	BY MS. GARBER:	17	on their findings to inform their
18	Q. Have you done a thorough and	18	opinions, that they are tasked
19	comprehensive assessment of the	19	with doing a comprehensive review
20	literature as it pertains to asbestos and	20	of the literature on the topic.
21	ovarian cancer?	21	And so yes, I feel like if I
22	MS. CURRY: Object to the	22	reviewed what they reviewed, I've
23	form.	23	done a comprehensive review as
24	THE WITNESS: To be honest,	24	well.
	,		
	Page 91		Page 93
1	I'm hoping that IARC would have	1	BY MS. GARBER:
2	done an extensive study of the	2	Q. With regard to the
3	literature. So my only as I've	3	misclassification issue that you
4	already admitted, I'm not an	4	testified about, Doctor, if you could
5	asbestos specialist, so my	5	look back at Page 256.
6	understanding of asbestos and	6	A. Yes.
7	ovarian cancer is limited to IARC.	7	Q. It indicates, "The working
8	And if they've done an	8	group carefully considered the
9	extensive review to reach their	9	possibility that cases of peritoneal
10	conclusions, then I would have to	10	
			mesothelioma may have been misdiagnosed
11	say that I have as well, because I	11	as ovarian cancer and that these
12	say that I have as well, because I reviewed the papers they've	11 12	as ovarian cancer and that these contributed to the observed excesses.
12 13	say that I have as well, because I reviewed the papers they've reviewed. And I've already	11 12 13	as ovarian cancer and that these contributed to the observed excesses. Contravening that possibility is the
12 13 14	say that I have as well, because I reviewed the papers they've reviewed. And I've already repeatedly told you the problems	11 12 13 14	as ovarian cancer and that these contributed to the observed excesses. Contravening that possibility is the finding that three of the studies cited
12 13 14 15	say that I have as well, because I reviewed the papers they've reviewed. And I've already repeatedly told you the problems that I have with saying you're	11 12 13 14 15	as ovarian cancer and that these contributed to the observed excesses. Contravening that possibility is the finding that three of the studies cited here specifically examined the
12 13 14 15 16	say that I have as well, because I reviewed the papers they've reviewed. And I've already repeatedly told you the problems that I have with saying you're supported by studies that find the	11 12 13 14 15 16	as ovarian cancer and that these contributed to the observed excesses. Contravening that possibility is the finding that three of the studies cited here specifically examined the possibility, and there were misdiagnosed
12 13 14 15 16 17	say that I have as well, because I reviewed the papers they've reviewed. And I've already repeatedly told you the problems that I have with saying you're supported by studies that find the exact opposite findings of the	11 12 13 14 15 16 17	as ovarian cancer and that these contributed to the observed excesses. Contravening that possibility is the finding that three of the studies cited here specifically examined the possibility, and there were misdiagnosed cases of peritoneal mesothelioma, and all
12 13 14 15 16 17	say that I have as well, because I reviewed the papers they've reviewed. And I've already repeatedly told you the problems that I have with saying you're supported by studies that find the exact opposite findings of the studies that hold your original	11 12 13 14 15 16 17	as ovarian cancer and that these contributed to the observed excesses. Contravening that possibility is the finding that three of the studies cited here specifically examined the possibility, and there were misdiagnosed cases of peritoneal mesothelioma, and all failed to find sufficient numbers of
12 13 14 15 16 17 18 19	say that I have as well, because I reviewed the papers they've reviewed. And I've already repeatedly told you the problems that I have with saying you're supported by studies that find the exact opposite findings of the studies that hold your original opinion.	11 12 13 14 15 16 17 18	as ovarian cancer and that these contributed to the observed excesses. Contravening that possibility is the finding that three of the studies cited here specifically examined the possibility, and there were misdiagnosed cases of peritoneal mesothelioma, and all failed to find sufficient numbers of misclassified cases."
12 13 14 15 16 17 18 19 20	say that I have as well, because I reviewed the papers they've reviewed. And I've already repeatedly told you the problems that I have with saying you're supported by studies that find the exact opposite findings of the studies that hold your original opinion. BY MS. GARBER:	11 12 13 14 15 16 17 18 19 20	as ovarian cancer and that these contributed to the observed excesses. Contravening that possibility is the finding that three of the studies cited here specifically examined the possibility, and there were misdiagnosed cases of peritoneal mesothelioma, and all failed to find sufficient numbers of misclassified cases." Doctor, do you agree with
12 13 14 15 16 17 18 19 20 21	say that I have as well, because I reviewed the papers they've reviewed. And I've already repeatedly told you the problems that I have with saying you're supported by studies that find the exact opposite findings of the studies that hold your original opinion. BY MS. GARBER: Q. Is the answer to my question	11 12 13 14 15 16 17 18 19 20 21	as ovarian cancer and that these contributed to the observed excesses. Contravening that possibility is the finding that three of the studies cited here specifically examined the possibility, and there were misdiagnosed cases of peritoneal mesothelioma, and all failed to find sufficient numbers of misclassified cases." Doctor, do you agree with that statement?
12 13 14 15 16 17 18 19 20 21 22	say that I have as well, because I reviewed the papers they've reviewed. And I've already repeatedly told you the problems that I have with saying you're supported by studies that find the exact opposite findings of the studies that hold your original opinion. BY MS. GARBER: Q. Is the answer to my question no, I have not conducted a full	11 12 13 14 15 16 17 18 19 20 21 22	as ovarian cancer and that these contributed to the observed excesses. Contravening that possibility is the finding that three of the studies cited here specifically examined the possibility, and there were misdiagnosed cases of peritoneal mesothelioma, and all failed to find sufficient numbers of misclassified cases." Doctor, do you agree with that statement? A. I agree with the statement
12 13 14 15 16 17 18 19 20 21 22 23	say that I have as well, because I reviewed the papers they've reviewed. And I've already repeatedly told you the problems that I have with saying you're supported by studies that find the exact opposite findings of the studies that hold your original opinion. BY MS. GARBER: Q. Is the answer to my question no, I have not conducted a full comprehensive review of the literature?	11 12 13 14 15 16 17 18 19 20 21 22 23	as ovarian cancer and that these contributed to the observed excesses. Contravening that possibility is the finding that three of the studies cited here specifically examined the possibility, and there were misdiagnosed cases of peritoneal mesothelioma, and all failed to find sufficient numbers of misclassified cases." Doctor, do you agree with that statement? A. I agree with the statement that they did not find what they
12 13 14 15 16 17 18 19 20 21 22	say that I have as well, because I reviewed the papers they've reviewed. And I've already repeatedly told you the problems that I have with saying you're supported by studies that find the exact opposite findings of the studies that hold your original opinion. BY MS. GARBER: Q. Is the answer to my question no, I have not conducted a full	11 12 13 14 15 16 17 18 19 20 21 22	as ovarian cancer and that these contributed to the observed excesses. Contravening that possibility is the finding that three of the studies cited here specifically examined the possibility, and there were misdiagnosed cases of peritoneal mesothelioma, and all failed to find sufficient numbers of misclassified cases." Doctor, do you agree with that statement? A. I agree with the statement

	Page 94		Page 96
1	cases. But I'm aware that they actually	1	A. Yes.
2	did not go back and do a histologic	2	Q. And asbestiform talc?
3	evaluation of every case.	3	A. Yes.
4	What I'm also aware of is	4	Q. Thank you.
5	that specific cases that do	5	Do you agree, Doctor, that
6	systematically go back and have	6	asbestos and asbestiform talc are Group 1
7	pathologic confirmation somehow come to a	7	carcinogens under IARC 2012?
8	different conclusion than the studies	8	•
9	that don't do that. And so I'm still	9	A. I agree.Q. Doctor, if talcum powder
10	left wondering, if you do a systematic	10	products contain asbestos, talcum powder
11	pathology review and classify them, you	11	products contain a Group 1 carcinogen?
12	don't find an increased risk. If you	12	
13	don't find an increased risk. If you don't do a systematic pathology	13	MS. CURRY: Object to the
14		14	form. THE WITNESS: Excuse me?
15	confirmation, you find an increased risk.	15	BY MS. GARBER:
16	I'm like IARC, I'm not convinced that misclassification has been	16	
			Q. You just testified that
17	totally ruled out because I can't	17	asbestos is a Group 1 carcinogen, right?
18	understand why these two different types	18	A. Yes.
19	of studies are coming you see, you're	19	Q. And
20	losing consistency then.	20	A. According to IARC, yes.
21	Q. IARC found otherwise.	21	Q. Okay. And if, it's a
22	A. I just admitted that I have	22	hypothetical, talcum powder products
23	a different opinion.	23	contain asbestos, then those talcum
24	Q. So your review as to the	24	powder products contain a Group 1
	Page 95		Daga 07
	5		Page 97
1	issue of asbestos and asbestiform talc	1	carcinogen, right?
1 2	issue of asbestos and asbestiform talc	1 2	
	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC		carcinogen, right?
2	issue of asbestos and asbestiform talc	2	carcinogen, right? A. That would be IARC's
2	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct?	2 3	carcinogen, right? A. That would be IARC's opinion, yes.
2 3 4	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form.	2 3 4	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a
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2 3 4 5 6	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm	2 3 4 5 6	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what
2 3 4 5 6 7	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm trying to trying to state this	2 3 4 5 6 7	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what in the beginning whether what's my
2 3 4 5 6 7 8	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm trying to trying to state this as clearly as possible so we can	2 3 4 5 6 7 8	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what in the beginning whether what's my definition of a carcinogen. And I said
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2 3 4 5 6 7 8 9 10 11 12 13 14	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm trying to trying to state this as clearly as possible so we can move on. My opinion of asbestos and its ability to cause cancer of the ovary are restricted to the studies of heavy occupational exposure in which they actually found an increased risk of ovarian	2 3 4 5 6 7 8 9 10 11 12 13 14 15	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what in the beginning whether what's my definition of a carcinogen. And I said it's a substance that can cause cancer. So on one hand you're asking if it contains this substance that IARC has deemed a Level 1 carcinogen, would it contain that carcinogen? By definition, yes. You said if I take that supposition.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm trying to trying to state this as clearly as possible so we can move on. My opinion of asbestos and its ability to cause cancer of the ovary are restricted to the studies of heavy occupational exposure in which they actually found an increased risk of ovarian cancer. BY MS. GARBER:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what in the beginning whether what's my definition of a carcinogen. And I said it's a substance that can cause cancer. So on one hand you're asking if it contains this substance that IARC has deemed a Level 1 carcinogen, would it contain that carcinogen? By definition, yes. You said if I take that supposition. I would just say I'm looking at, and I was asked to review the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm trying to trying to state this as clearly as possible so we can move on. My opinion of asbestos and its ability to cause cancer of the ovary are restricted to the studies of heavy occupational exposure in which they actually found an increased risk of ovarian cancer. BY MS. GARBER: Q. And your review to come to your opinions is limited to IARC 2012?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what in the beginning whether what's my definition of a carcinogen. And I said it's a substance that can cause cancer. So on one hand you're asking if it contains this substance that IARC has deemed a Level 1 carcinogen, would it contain that carcinogen? By definition, yes. You said if I take that supposition. I would just say I'm looking at, and I was asked to review the literature on talc. And you asked me what do I consider talc, and I said
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm trying to trying to state this as clearly as possible so we can move on. My opinion of asbestos and its ability to cause cancer of the ovary are restricted to the studies of heavy occupational exposure in which they actually found an increased risk of ovarian cancer. BY MS. GARBER: Q. And your review to come to your opinions is limited to IARC 2012? MS. CURRY: Object to form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what in the beginning whether what's my definition of a carcinogen. And I said it's a substance that can cause cancer. So on one hand you're asking if it contains this substance that IARC has deemed a Level 1 carcinogen, would it contain that carcinogen? By definition, yes. You said if I take that supposition. I would just say I'm looking at, and I was asked to review the literature on talc. And you asked me what do I consider talc, and I said Johnson & Johnson and Shower to Shower.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm trying to trying to state this as clearly as possible so we can move on. My opinion of asbestos and its ability to cause cancer of the ovary are restricted to the studies of heavy occupational exposure in which they actually found an increased risk of ovarian cancer. BY MS. GARBER: Q. And your review to come to your opinions is limited to IARC 2012? MS. CURRY: Object to form. THE WITNESS: As far as	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what in the beginning whether what's my definition of a carcinogen. And I said it's a substance that can cause cancer. So on one hand you're asking if it contains this substance that IARC has deemed a Level 1 carcinogen, would it contain that carcinogen? By definition, yes. You said if I take that supposition. I would just say I'm looking at, and I was asked to review the literature on talc. And you asked me what do I consider talc, and I said Johnson & Johnson and Shower to Shower. Is that a carcinogen?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	issue of asbestos and asbestiform talc and carcinogenicity is limited to IARC 2012, correct? MS. CURRY: Object to the form. THE WITNESS: Again, I'm trying to trying to state this as clearly as possible so we can move on. My opinion of asbestos and its ability to cause cancer of the ovary are restricted to the studies of heavy occupational exposure in which they actually found an increased risk of ovarian cancer. BY MS. GARBER: Q. And your review to come to your opinions is limited to IARC 2012? MS. CURRY: Object to form. THE WITNESS: As far as asbestos?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	carcinogen, right? A. That would be IARC's opinion, yes. Q. Is it your opinion? It's a Group 1 carcinogen. A. You asked, you asked what in the beginning whether what's my definition of a carcinogen. And I said it's a substance that can cause cancer. So on one hand you're asking if it contains this substance that IARC has deemed a Level 1 carcinogen, would it contain that carcinogen? By definition, yes. You said if I take that supposition. I would just say I'm looking at, and I was asked to review the literature on talc. And you asked me what do I consider talc, and I said Johnson & Johnson and Shower to Shower. Is that a carcinogen? And now that goes back to my

PageID: 193748
Kevin Holcomb, M.D.

	Page 98		Page 100
1	you know you've already asked, would be	1	clarify my opinion, because my
2	no.	2	opinion is really, I think,
3	Q. Well, so I'll go back to my	3	clearly what I'm stating.
4	question.	4	I'm saying that asbestos and
5	Assume that talcum powder	5	its relationship to ovarian cancer
6	products contain asbestos, then they	6	has been clearly shown in a few
7	contain a Group 1 carcinogen, right?	7	very unlikely situations ever to
8	MS. CURRY: Object to form.	8	happen again. And those are those
9	THE WITNESS: You know,	9	prospective cohort studies.
10	we're sort of tying all these	10	I'm saying that IARC,
11	things together. I already	11	extending that outside of those
12	explained that I disagreed with	12	situations that they have not
13	IARC's definition of at least its	13	studied, that's when I'm going to
14	role of outside of those heavy	14	go to what are people actually
15	occupational exposures, which are	15	using in that bottle.
16	the only studies that they cite	16	And if that's asbestos in
17	which shows an increased risk of	17	that bottle, I'm closing this
18	ovarian cancer.	18	book, and I'm opening the talc
19	So you're saying would IARC	19	monograph, because that all the
20	consider that in talc as a	20	studies that they discuss in that
21	carcinogen, the asbestos, and I'm	21	talc monograph are these products,
22	saying yes, they considered in	22	the Johnson & Johnson products.
23	your supposition, would	23	I would be going to the
24	asbestiform talc be considered a	24	case-control studies in my report.
			J 1
	Page 99		Page 101
1	Group 1. I would say according to	1	I'd be going to the prospective
2	IARC, yes.	2	trials in my report.
3	I'm just clarifying to say	3	I don't understand why we
4	that the whole point of me being	4	would use such an indirect
5	here is to give an opinion whether	5	comparison, finding something in
6	that supposition that you just	6	this book to help us figure out
7	said, if there is asbestos in Baby	7	does that product cause cancer
8	Powder, Johnson & Johnson's	8	when there's been so much research
9	product, is that a carcinogen?	9	using what's in that bottle that
10	And my answer would be no,	10	have results.
11	because I don't see convincing	11	BY MS. GARBER:
12	and we're going to go through I'm	12	Q. Doctor, my question was just
13	sure all the reasons that I don't	13	way more broad than what what you're
14	believe that. But I don't believe	14	answering.
15	that it proves that it's a	15	Do you agree with IARC that
16	carcinogen.	16	asbestos is a Group I carcinogen? I
17	BY MS. GARBER:	17	didn't mention ovarian cancer. I said do
18	Q. So then, you disagree with	18	you agree with IARC that asbestos is a
19	IARC that asbestos is not a Group 1	19	Group I carcinogen?
		20	MS. CURRY: Object to the
20	carcinogen?	1	
20 21	MS. CURRY: Object to form.	21	form.
20 21 22	MS. CURRY: Object to form. THE WITNESS: No. You're	22	THE WITNESS: Yes. In
20 21	MS. CURRY: Object to form.		

PageID: 193749 Kevin Holcomb, M.D.

	Page 102		Page 104
1	Q. And so now if we put a	1	Q. Your file for this matter is
2	Group I carcinogen in a bottle of talc,	2	your report?
3	then the corollary is that the bottle of	3	A. Yes.
4	talc contains a Group I carcinogen,	4	Q. Does it consist of anything
5	right?	5	else?
6	A. That would be true.	6	A. Does my report consist of
7	MS. CURRY: Object to the	7	anything else?
8	form.	8	Q. No.
9	BY MS. GARBER:	9	Is it your testimony,
10	Q. Thank you.	10	Doctor, that your file in this matter in
11	So let's mark your notice of	11	the MDL consists of your expert report,
12	deposition as Exhibit 5.	12	
13	(Document marked for	13	which is dated February 25, 2019?
14	identification as Exhibit	14	MS. CURRY: Object to the form.
		15	THE WITNESS: Yes.
15	Holcomb-5.) BY MS. GARBER:	1	BY MS. GARBER:
16		16	
17	Q. Doctor, we've marked as	17	Q. You don't have any other
18	Exhibit 5 your notice of deposition for	18	documents?
19	today's proceeding. Did you review this	19	A. No.
20	before today?	20	Q. And do you have any
21	A. At some point I did.	21	document any scientific literature
22	Q. When did you review it?	22	that consists of your file?
23	A. When?	23	MS. CURRY: Object to the
24	Q. Mm-hmm.	24	form.
	Page 103		Page 105
1	A. When it was first produced.	1	THE WITNESS: I don't
2	Q. And did you review the	2	understand your question.
3	documents	3	BY MS. GARBER:
4	MS. GARBER: And I	4	Q. You've reviewed a number of
5	understand you've made objections,	5	studies that appear on the reference
6	Ms. Curry.	6	lists attached to your expert report,
7	BY MS. GARBER:	7	correct?
8	Q. But did you review the	8	A. Correct.
9	documents that we asked you to produce?	9	Q. Where physically are those
10	A. Yes.	10	literature?
T 0		1	
11	Q. And did you endeavor to	11	A. When you say where
	•	11 12	3 3
11	Q. And did you endeavor to comply with that and provide those documents?	1	physically?
11 12	comply with that and provide those	12	physically? Q. Mm-hmm.
11 12 13	comply with that and provide those documents? A. Yes.	12 13	physically? Q. Mm-hmm. A. The I I did most of
11 12 13 14	comply with that and provide those documents? A. Yes. Q. And have you brought with	12 13 14	physically? Q. Mm-hmm. A. The I I did most of my almost all of it electronically.
11 12 13 14 15	comply with that and provide those documents? A. Yes. Q. And have you brought with you Item 3, a copy of your complete files	12 13 14 15 16	physically? Q. Mm-hmm. A. The I I did most of my almost all of it electronically. Q. You didn't receive hard
11 12 13 14 15 16 17	comply with that and provide those documents? A. Yes. Q. And have you brought with you Item 3, a copy of your complete files as they relate to the work done	12 13 14 15 16 17	physically? Q. Mm-hmm. A. The I I did most of my almost all of it electronically. Q. You didn't receive hard copies of any documents?
11 12 13 14 15 16 17 18	comply with that and provide those documents? A. Yes. Q. And have you brought with you Item 3, a copy of your complete files as they relate to the work done concerning talcum powder litigation?	12 13 14 15 16 17 18	physically? Q. Mm-hmm. A. The I I did most of my almost all of it electronically. Q. You didn't receive hard copies of any documents? A. The expert reports I
11 12 13 14 15 16 17 18	comply with that and provide those documents? A. Yes. Q. And have you brought with you Item 3, a copy of your complete files as they relate to the work done concerning talcum powder litigation? MS. CURRY: Object to the	12 13 14 15 16 17 18 19	physically? Q. Mm-hmm. A. The I I did most of my almost all of it electronically. Q. You didn't receive hard copies of any documents? A. The expert reports I received as a hardcopy.
11 12 13 14 15 16 17 18 19 20	comply with that and provide those documents? A. Yes. Q. And have you brought with you Item 3, a copy of your complete files as they relate to the work done concerning talcum powder litigation? MS. CURRY: Object to the form.	12 13 14 15 16 17 18 19 20	physically? Q. Mm-hmm. A. The I I did most of my almost all of it electronically. Q. You didn't receive hard copies of any documents? A. The expert reports I received as a hardcopy. Q. What about with regard to
11 12 13 14 15 16 17 18 19 20 21	comply with that and provide those documents? A. Yes. Q. And have you brought with you Item 3, a copy of your complete files as they relate to the work done concerning talcum powder litigation? MS. CURRY: Object to the form. THE WITNESS: Yes.	12 13 14 15 16 17 18 19 20 21	physically? Q. Mm-hmm. A. The I I did most of my almost all of it electronically. Q. You didn't receive hard copies of any documents? A. The expert reports I received as a hardcopy. Q. What about with regard to published literature. Did you review
11 12 13 14 15 16 17 18 19 20 21 22	comply with that and provide those documents? A. Yes. Q. And have you brought with you Item 3, a copy of your complete files as they relate to the work done concerning talcum powder litigation? MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER:	12 13 14 15 16 17 18 19 20 21 22	physically? Q. Mm-hmm. A. The I I did most of my almost all of it electronically. Q. You didn't receive hard copies of any documents? A. The expert reports I received as a hardcopy. Q. What about with regard to published literature. Did you review any did you receive any hard copies of
11 12 13 14 15 16 17 18 19 20 21	comply with that and provide those documents? A. Yes. Q. And have you brought with you Item 3, a copy of your complete files as they relate to the work done concerning talcum powder litigation? MS. CURRY: Object to the form. THE WITNESS: Yes.	12 13 14 15 16 17 18 19 20 21	physically? Q. Mm-hmm. A. The I I did most of my almost all of it electronically. Q. You didn't receive hard copies of any documents? A. The expert reports I received as a hardcopy. Q. What about with regard to published literature. Did you review

PageID: 193750 Kevin Holcomb, M.D.

	Page 106		Page 108
1	Q. You did receive hard copies	1	that Johnson & Johnson provided you that
2	from the Ingham matter, correct?	2	you relied upon in forming your opinions?
3	A. I did. And I quickly asked	3	A. No.
4	for electronic copies.	4	Q. Relating to your opinions as
5	Q. And did you make any notes	5	set forth in your February 25, 2019,
6	on those 61 studies that you received in	6	litigation report, have you made any
7	connection with Ingham?	7	assumptions?
8	MS. CURRY: Object to the	8	A. Please repeat that?
9	form.	9	Q. Sure. Relating to your
10	THE WITNESS: No.	10	opinions in your expert report in this
11	BY MS. GARBER:	11	matter, have you made any assumptions?
12	Q. With regard to the	12	MS. CURRY: Object to the
13	literature that you reviewed in	13	form.
14	connection with this matter, did you make	14	THE WITNESS: No.
15	any notes electronically on the data?	15	BY MS. GARBER:
16	A. No.	16	Q. Do you assume, in coming to
17	Q. Do you have the data saved	17	your causation opinions regarding talcum
18	in a certain file in your computer?	18	powder products, that they are free of
19	A. Yes. I imagine it's	19	asbestos?
20	probably somewhere in my download list,	20	A. I don't have an opinion on
21	in my download area.	21	it.
22	Q. Like a DropBox?	22	Q. Do you have an opinion as to
23	A. No. I'm saying like if it	23	whether Johnson & Johnson products,
24	was sent electronically, when I	24	talcum powder products, are free of
	Page 107		- 100
	rage 107		Page 109 I
1		1	Page 109
1	downloaded it, I would imagine it must be	1 2	fibrous tale?
2	downloaded it, I would imagine it must be in the download part of my computer.	2	fibrous talc? A. No, I don't have an opinion.
2	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't	2 3	fibrous tale? A. No, I don't have an opinion. Q. Do you have an opinion if
2 3 4	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a	2 3 4	fibrous tale? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products
2 3 4 5	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be?	2 3 4 5	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel,
2 3 4 5 6	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and	2 3 4 5 6	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like?
2 3 4 5 6 7	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading	2 3 4 5 6 7	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the
2 3 4 5 6 7 8	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer.	2 3 4 5 6 7 8	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form.
2 3 4 5 6 7 8	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay.	2 3 4 5 6 7	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have
2 3 4 5 6 7 8 9	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all	2 3 4 5 6 7 8	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form.
2 3 4 5 6 7 8	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your	2 3 4 5 6 7 8 9	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER:
2 3 4 5 6 7 8 9 10	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all	2 3 4 5 6 7 8 9 10	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion.
2 3 4 5 6 7 8 9 10 11 12	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this	2 3 4 5 6 7 8 9 10 11 12	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion
2 3 4 5 6 7 8 9 10 11 12	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter?	2 3 4 5 6 7 8 9 10 11 12 13	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder
2 3 4 5 6 7 8 9 10 11 12 13	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances?
2 3 4 5 6 7 8 9 10 11 12 13 14	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the	2 3 4 5 6 7 8 9 10 11 12 13 14 15	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections. BY MS. GARBER: Q. And have you produced all references that identify facts, or data	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form. THE WITNESS: No, I don't
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections. BY MS. GARBER: Q. And have you produced all	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form. THE WITNESS: No, I don't have an opinion. BY MS. GARBER: Q. In the Ingham matter, you
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections. BY MS. GARBER: Q. And have you produced all references that identify facts, or data that Johnson & Johnson lawyers provided you and you considered in formulating	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form. THE WITNESS: No, I don't have an opinion. BY MS. GARBER: Q. In the Ingham matter, you had no opinion whether Johnson &
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections. BY MS. GARBER: Q. And have you produced all references that identify facts, or data that Johnson & Johnson lawyers provided you and you considered in formulating your opinions?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form. THE WITNESS: No, I don't have an opinion. BY MS. GARBER: Q. In the Ingham matter, you had no opinion whether Johnson & Johnson's talcum powder products
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections. BY MS. GARBER: Q. And have you produced all references that identify facts, or data that Johnson & Johnson lawyers provided you and you considered in formulating your opinions? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form. THE WITNESS: No, I don't have an opinion. BY MS. GARBER: Q. In the Ingham matter, you had no opinion whether Johnson & Johnson's talcum powder products contained asbestos at any point, right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	downloaded it, I would imagine it must be in the download part of my computer. Q. Have you I don't understand when you say download of a computer, where that would be? A. If you get a ZIP file, and you open it, it's actually downloading stuff to your computer. Q. I understand. Okay. Have you produced all documents that relate to your compensation for expert work in this matter? A. Yes. MS. CURRY: Subject to the objections. BY MS. GARBER: Q. And have you produced all references that identify facts, or data that Johnson & Johnson lawyers provided you and you considered in formulating your opinions?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	fibrous talc? A. No, I don't have an opinion. Q. Do you have an opinion if Johnson & Johnson talcum powder products contain heavy metals like nickel, chromium, cobalt and the like? MS. CURRY: Object to the form. THE WITNESS: I don't have an opinion. BY MS. GARBER: Q. Do you have an opinion whether Johnson & Johnson talcum powder products contain carcinogenic fragrances? MS. CURRY: Object to the form. THE WITNESS: No, I don't have an opinion. BY MS. GARBER: Q. In the Ingham matter, you had no opinion whether Johnson & Johnson's talcum powder products

PageID: 193751 Kevin Holcomb, M.D.

	Page 110		Page 112
1	no.	1	Q. And it lists 95 hours of
2	Q. Is that still the case?	2	expert work?
3	A. Still the case.	3	A. Yes, it does.
4	(Document marked for	4	Q. And at a rate of \$850?
5	identification as Exhibit	5	A. Yes.
6	Holcomb-6.)	6	Q. And so you've invoiced
7	BY MS. GARBER:	7	Johnson & Johnson for \$80,750, right?
8	Q. I'll mark as Exhibit 6 the	8	A. That's correct.
9	production that was made, I think, the	9	Q. Have you been paid?
10	25th.	10	A. No.
11	Doctor, this is a single	11	Q. And are there any other
12	document that is printed on both sides,	12	hours that you intend to invoice Johnson
13	and we'll start with the side that is	13	& Johnson for?
14	titled "Expert Report of Kevin Holcomb	14	A. Yes.
15	For General Or Causation Daubert Hearing,	15	MS. CURRY: Object to the
16	Supplemental Materials Received and	16	form.
17	Reviewed By Dr. Kevin Holcomb."	17	BY MS. GARBER:
18	Doctor, is this the	18	Q. And how many hours would
19	supplemental materials that you reviewed	19	that entail?
20	after you issued your expert report?	20	A. Depends on how long we go
21	A. Yes.	21	today and the few hours yesterday.
22	Q. Do you need to add any	22	Q. How many hours yesterday?
23	further documents to this list to make it	23	A. Maybe about four.
24	accurate?	24	Q. And do you intend to bill
	Page 111		Page 113
1	A. No.	1	Johnson & Johnson for any work in
2	Q. And when did you review the	2	preparation of today's deposition before
3	scientific studies that are listed there?	3	the deposition started today?
4	A. When you say scientific?	4	A. No.
5	Q. Aside from the depositions	5	Q. Do you have a different rate
6	and expert reports, when did you review	6	for your deposition
7	each of those papers that are listed	7	A. No.
8	there, specifically Items 1, 2, 8, 9 and	8	Q as opposed to other work
9	10?	9	that you do?
10	A. That came after reading	10	A. No.
11	Dr. Saenz's deposition. So I don't know.	11	Q. How much money were you paid
12	Maybe about a week, week and a half ago.	12	with regard to your work in the Ingham
13	Q. Okay. And then if we turn	13	case?
14	the document over, does this reflect an	14	A. In total, it was \$100,300.
15	invoice issued by you on March 25th,	15	Q. And so in connection with
16	2019, to Johnson & Johnson for expert	16	your work today for Johnson & Johnson in
17	services?	17	connection with talcum powder products,
18	A. Yes, it does.	18	ovarian cancer litigation, you have thus
19	Q. And it indicates as to the	19	at least invoiced and/or been paid for
20	description for literature review,	20	roughly 183 almost \$184,000; is that
	drafting of expert report, and	21	fair?
21			
21 22	preparation for deposition; is that	22	MS. CURRY: Object to the
	preparation for deposition; is that correct?	22 23 24	MS. CURRY: Object to the form.

PageID: 193752 Kevin Holcomb, M.D.

	Page 114		Page 116
1	BY MS. GARBER:	1	with some degree of how strong I thought
2	Q. How much?	2	the studies were, how subject they might
3	A. You said invoiced and been	3	be to spurious results.
4	paid?	4	I looked to see if there was
5	Q. Yeah, so, so you have to	5	consistency. I looked to see if there
6	date earned \$103,000, correct?	6	was a biologic plausibility that involved
7	A. Correct.	7	mainly looking at migration issues. And
8	Q. And then you've invoiced	8	then in a totality came up with my
9	Johnson & Johnson for \$80,750, correct?	9	opinion about the ability of talc to
10	A. Correct.	10	cause ovarian cancer.
11	Q. Plus the hours that you just	11	Q. If we turn to your
12	mentioned?	12	references which appear beginning at Page
13	A. Correct.	13	25 through 33. And in addition the
14	Q. Is that the totality of the	14	supplemental references, there are more
15	compensation that you have received, or	15	than the 61 references that you had in
16	will receive up through today's	16	connection with the Ingham trial,
17	deposition?	17	correct?
18	A. That is.	18	A. Yes.
19	Q. Thank you.	19	Q. Did you request any other
20	(Document marked for	20	documents or literature from counsel?
21	identification as Exhibit	21	MS. CURRY: Object to the
22	Holcomb-7.)	22	form.
23	BY MS. GARBER:	23	THE WITNESS: No.
24	Q. I'm going to mark your	24	BY MS. GARBER:
	Page 115		Page 117
1	expert report in the MDL as Exhibit 7.	1	Q. And is it accurate that all
2	You signed this document on	2	of the documents that are listed on your
3	F 1 25 2010 49		
	February 25, 2019, correct?	3	reference lists, which include what's
4	A. Correct.	3 4	
4 5	A. Correct.		reference lists, which include what's
	A. Correct.	4	reference lists, which include what's attached to your report and the
5	A. Correct.Q. And this is your litigation	4 5	reference lists, which include what's attached to your report and the supplemental, were all provided to you by
5 6	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder	4 5 6	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel?
5 6 7	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct?	4 5 6 7	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the
5 6 7 8	A. Correct.Q. And this is your litigationreport attendant to the MDL talcum powderproducts litigation, correct?A. Correct.	4 5 6 7 8	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form.
5 6 7 8 9	 A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have 	4 5 6 7 8 9	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of
5 6 7 8 9	 A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any 	4 5 6 7 8 9	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I
5 6 7 8 9 10 11	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process	4 5 6 7 8 9 10 11	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones.
5 6 7 8 9 10 11 12	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No.	4 5 6 7 8 9 10 11 12	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by
5 6 7 8 9 10 11 12	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process	4 5 6 7 8 9 10 11 12 13	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel.
5 6 7 8 9 10 11 12 13 14	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions	4 5 6 7 8 9 10 11 12 13 14	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER:
5 6 7 8 9 10 11 12 13 14	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report?	4 5 6 7 8 9 10 11 12 13 14 15	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you
5 6 7 8 9 10 11 12 13 14 15	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by	4 5 6 7 8 9 10 11 12 13 14 15 16	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming
5 6 7 8 9 10 11 12 13 14 15 16	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed	4 5 6 7 8 9 10 11 12 13 14 15 16 17	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions?
5 6 7 8 9 10 11 12 13 14 15 16 17	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed both case-control and cohort studies. I	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions? A. No.
5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed both case-control and cohort studies. I looked at well, I guess my methodology	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions? A. No. Q. Are there any materials that
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed both case-control and cohort studies. I looked at well, I guess my methodology would really be following Bradford Hill's	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions? A. No. Q. Are there any materials that you relied upon in forming your opinions
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed both case-control and cohort studies. I looked at well, I guess my methodology would really be following Bradford Hill's methodology, because in reviewing that	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions? A. No. Q. Are there any materials that you relied upon in forming your opinions that are not listed in your reference
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Correct. Q. And this is your litigation report attendant to the MDL talcum powder products litigation, correct? A. Correct. Q. Have you endeavored to have this litigation report published in any scientific journal? A. No. Q. Can you describe the process you used in developing the opinions contained in this report? A. Yes. I started, again, by reviewing epidemiologic data. I reviewed both case-control and cohort studies. I looked at well, I guess my methodology would really be following Bradford Hill's methodology, because in reviewing that data I looked at the strengths of	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	reference lists, which include what's attached to your report and the supplemental, were all provided to you by counsel? MS. CURRY: Object to the form. THE WITNESS: No. Some of these I came up with on my own. I don't remember exactly which ones. But it's not all provided by counsel. BY MS. GARBER: Q. Is there anything you reviewed but did not rely upon in forming your opinions? A. No. Q. Are there any materials that you relied upon in forming your opinions that are not listed in your reference lists that we've reviewed?

PageID: 193753 Kevin Holcomb, M.D.

	Page 118		Page 120
1	THE WITNESS: Other than	1	Q. What were your what was
2	what I've already told you that I	2	your search engine?
3	came across in expert reports.	3	A. PubMed as you mentioned.
4	BY MS. GARBER:	4	Sometimes Google.
5	Q. And in drafting your expert	5	Q. And what were your search
6	report, you have not made any notes; is	6	terms?
7	that correct?	7	A. Ovarian cancer, talc,
8	A. If you mean written, no. I	8	perineal talc and ovarian cancer, body
9	would as the manuscript was being	9	powder and ovarian cancer. It depended
10	produced, I would make points. But it	10	what I was looking for.
11	all became incorporated in the end into a	11	There was some points I'm
12	final product.	12	making in my expert report where I'm
13	Q. What was the process by	13	using analogies. And so I was looking at
14	which you developed your report? Did you	14	HPV and cervical cancer or herpes simplex
15	read a study and then make some notes or	15	virus and cervical cancer. And so it
16	mental notes, or write? Tell me the	16	it depended on what I was what I was
17	process by which you	17	looking at at the moment.
18	MS. CURRY: Object to the	18	Q. What did you do, Google
19	form.	19	searches?
20	THE WITNESS: I typically	20	A. I'm guilty of using Google
21	worked with two monitors. And one	21	from now and then to start a search.
22	I'm writing the manuscript. The	22	It's sometimes faster. It will bring up
23	other one, I'm bringing up papers.	23	PubMed articles.
24	BY MS. GARBER:	24	Q. Did have you read, since
	DT Wis. Grindlik.		Q. Did have you read, since
	Page 119		Page 121
1	Q. Okay. So there's no notes	1	the production of your supplemental
2	that you made before you started to sit	2	reference list, have you read any other
3	down and write your expert report; is	3	expert reports or depositions or other
4	that correct?	4	studies?
5	MS. CURRY: Object to the	5	A. Since?
6	form.	6	Q. Since the production of your
7	THE WITNESS: No.	7	supplemental expert report which was
8	BY MS. GARBER:	8	marked as Exhibit 6.
9	Q. It's not correct?	9	MS. CURRY: Object to the
10	A. There are no notes.	10	form. You mean supplemental
11	Q. There are thank you.	11	materials received list?
12	Did you read every word of	12	MS. GARBER: Yes.
13	the documents listed in your reference	13	THE WITNESS: Only let's
	list?	14	see. Yes, there's one other
14			.1 1.1 .
15	A. Yes.	15	one other paper, and that was a
15 16	Q. Did you when you said you	16	migration paper. But I believe it
15 16 17	Q. Did you when you said you obtained some of the references, is that	l	migration paper. But I believe it just came out. It was
15 16 17 18	Q. Did you when you said you obtained some of the references, is that limited to reviewing exhibits from expert	16	migration paper. But I believe it just came out. It was BY MS. GARBER:
15 16 17 18 19	Q. Did you when you said you obtained some of the references, is that limited to reviewing exhibits from expert reports or depositions?	16 17 18 19	migration paper. But I believe it just came out. It was
15 16 17 18 19 20	Q. Did you when you said you obtained some of the references, is that limited to reviewing exhibits from expert reports or depositions? A. No.	16 17 18	migration paper. But I believe it just came out. It was BY MS. GARBER: Q. What's the title? A. I don't remember.
15 16 17 18 19 20 21	Q. Did you when you said you obtained some of the references, is that limited to reviewing exhibits from expert reports or depositions?	16 17 18 19	migration paper. But I believe it just came out. It was BY MS. GARBER: Q. What's the title?
15 16 17 18 19 20 21 22	Q. Did you when you said you obtained some of the references, is that limited to reviewing exhibits from expert reports or depositions? A. No.	16 17 18 19 20 21 22	migration paper. But I believe it just came out. It was BY MS. GARBER: Q. What's the title? A. I don't remember.
15 16 17 18 19 20 21	Q. Did you when you said you obtained some of the references, is that limited to reviewing exhibits from expert reports or depositions? A. No. Q. Did you conduct any	16 17 18 19 20 21	migration paper. But I believe it just came out. It was BY MS. GARBER: Q. What's the title? A. I don't remember. Q. Or the author?

PageID: 193754 Kevin Holcomb, M.D.

	Page 122		Page 124
1	A. Cramer was was involved.	1	expert reports or depositions after the
2	I don't remember the first author though.	2	supplemental reference list?
3	Q. What was the nature of that	3	A. No.
4	paper?	4	Q. And it is accurate that
5	A. It was	5	prior to signing your expert report on
6	MS. CURRY: Object to the	6	February 25, 2019, you had not read the
7	form.	7	recent Saed 2019 paper with regard to a
8	THE WITNESS: It was a paper	8	molecular basis supporting the
9	looking at an attempt to try to	9	association of talcum powder use with
10	differentiate contamination from	10	increased risk of ovarian cancer, right?
11	actual migration of talc	11	MS. CURRY: Object to the
12	particles.	12	form.
13	BY MS. GARBER:	13	THE WITNESS: I'm sorry, can
14	Q. What did you glean from that	14	you repeat the question again?
15	paper, Doctor?	15	Prior to
16	MS. CURRY: Object to the	16	BY MS. GARBER:
17	form.	17	Q. Sure.
18	THE WITNESS: The biggest	18	•
19	thing that I gleaned was that	19	Prior to signing your expert
20	contamination is it's probably	1	report on February 25, 2019, you had not
21	even more widespread than I	20	read Dr. Saed's 2019 publication,
22	realized. And I appreciated the		correct?
23	**	22	A. That's true.
23 24	effort to try to distinguish	23	MS. CURRY: Same objection.
24	between the two, but I wasn't	24	Sorry.
	Page 123		Page 125
1	convinced that you can	1	BY MS. GARBER:
2	necessarily.	2	Q. Prior to signing your expert
3	BY MS. GARBER:	3	report on February 25, 2019, likewise you
4	Q. Did the authors there	4	had not read Dr. Saed's abstract with
5	attempt to distinguish surface	5	regard to talc and ROS induction,
6	contamination from talc that was deeply	6	correct?
7	embedded in the tissue?	7	A. That's true.
8	A. Well, they were only looking	8	Q. You indicate at Page 20
9	at lymph nodes from my memory. So they	9	MS. CURRY: Do you need a
10	were trying to distinguish between	10	break?
11	particles on the surface and particles	11	THE WITNESS: Well, I wasn't
12	that are in, deeper inside the lymph node	12	sure if I it looks like we're
13	itself, yes.	13	going to be close to lunch so
14	Q. Does that paper provide a	14	We'll be planning on
15	basis for any of your expert opinions	15	breaking around 12 or
16	today?	16	MS. CURRY: Sorry. I
17	A. No.	17	thought he had a message from the
18	Q. You did not rely upon you	18	hospital, so I wanted to make sure
19	do not rely upon the Cramer we'll call	19	if he needs to take a break.
20	it Cramer contamination paper for	20	We've been going over an hour,
21	purposes of your expert opinions; is that	21	Susan, so whenever is a good time
22	fair?	22	for you.
23	A. That's fair.	23	MS. GARBER: You want to
24	Q. Did you read any other	24	take a break? Whenever you
4	O Didassa da se se dise	1 2/	talea a huaalea Wilson arran reas

PageID: 193755 Kevin Holcomb, M.D.

	ICVIII IIOIC		
	Page 126		Page 128
1	guys	1	they do acknowledge that, but they
2	THE WITNESS: I'm fine for a	2	don't they don't describe it.
3	break.	3	They just say considered limited
4	MS. GARBER: You want to	4	evidence to the contrary and find
5	take a break?	5	it non-persuasive.
6	THE WITNESS: Yeah, I'd	6	My review of the literature
7	appreciate it.	7	on this topic, I was looking for
8	MS. GARBER: Okay.	8	some studies showing that you
9	THE VIDEOGRAPHER: Please	9	could dust the human vulva with
10	remove your microphones. The time	10	tale and show that those particles
11	is 11:28 a.m. Going off the	11	-
12	record.	12	can make it to the ovary, and I
13		13	couldn't find a single study in
	(Short break.)	1	that situation.
14	THE VIDEOGRAPHER: Okay. We	14	You could place particles in
15	are back on the record. The time	15	the vagina. You can give a
16	is 11:42 a.m.	16	patient oxytocin. You can do
17	BY MS. GARBER:	17	some you know, different
18	Q. Doctor, you state at Page 22	18	different than the majority of the
19	of your report that plaintiffs' expert	19	use of these products.
20	gynecologic oncologist conducted a	20	And so I I came to the
21	selective review of the study on biologic	21	conclusion that their their
22	mechanism.	22	approach was conclusion driven,
23	What studies do you	23	just because it seemed to me, if
24	contend	24	you've never seen a study that
	Page 127		Page 129
1	A. Could you could you	1	shows it's possible, and then you
2	point I'm not sure where you're	2	just say well, the the studies
3	reading from.	3	that I did say that it doesn't
4	Q. From Page 22 of your expert	4	happen in an animal model, I
5	report.	5	don't I'm not persuaded by
6	A. Right, where I'm just	6	that.
7	looking where on the page it says this.	7	BY MS. GARBER:
8	Q. At the first full paragraph.	8	Q. What animal studies did you
9	MS. CURRY: I'm not seeing	9	review with regard to migration?
10	it there either.	10	A. Yeah, I'd have to look back
11	THE WITNESS: I see where	11	and see was whether it was the the
12	you're saying.	12	rat model or the pig model. But there
13	You're saying, "Such	13	were definitely animal model studies.
14	selective review of studies is	14	Let me just show you. It's
15	clearly conclusion driven."	15	
16		16	in the in the talc monograph, if you
	Q. Yeah, okay. So what what	1	want me to, I can go back through and
17	studies do you believe were omitted from	17	and find the citations of
18	the expert from the plaintiffs'	18	Q. That's okay, Doctor.
19	experts?	19	I want to know what animal
20	MS. CURRY: Object to the	20	studies you think plaintiffs' experts
21	form.	21	should have looked at in connection with
~ ~	THE WITNESS: There's animal	22	migration.
22			•
23	studies showing no ascension of	23	A. Well, it's exactly my point.
		23 24	•

	Page 130		Page 132
1	look at would be the study where someone	1	THE WITNESS: I'm not sure
2	dusted the human perineum with talc and	2	what you mean by comprehensive. I
3	showed that it was able to reach the	3	will tell you that the studies
4	ovary, and that doesn't exist. So that	4	that I do cite, for example a
5	would be the best thing to look at.	5	study like Heller, where there's
6	The studies that I mentioned	6	no correlation between the
7	to you, which I can go back to the talc	7	presence of talc in someone's
8	monograph and find, I don't remember if	8	ovaries and the reported use of
9	it was Sprague rats or if it was actually	9	talc, which I'm sure the
10		10	· ·
11	pigs or guinea pigs. There was a couple	11	plaintiffs' experts have seen,
12	of animal models where they were not able	12	should give them reason to pause
13	to show migration from the vagina, not	1	if they've never been able to show
	much less the perineum.	13	it in a human model that it can
14	Q. It's your testimony that	14	happen.
15	plaintiffs' experts didn't look at a	15	And then you see studies
16	human study that dusted the perineum with	16	like that that say there's no
17	tale and it was shown to migrate to the	17	correlation between reported
18	ovaries, and you're critical of that even	18	history and the presence of talc
19	though such a study does not exist?	19	in the ovaries, that it should
20	MS. CURRY: Object to the	20	make you it should make you
21	form.	21	wonder.
22	THE WITNESS: You know, I	22	And I wouldn't be so
23	guess what you can be critical of,	23	dismissive of the studies that are
24	and I'd have to admit to that is,	24	to the contrary. I mean, they're
	Page 131		Page 133
1	I'm saying such selective	1	mentioning, "Reviewed the small
2	review and I guess that's not	2	body of literature suggesting
3	what's being selective here.	3	migration of particles does not
4	What's being selective is what you	4	occur." So they're admitting that
5	consider persuasive or not.	5	there is a body of literature that
6	It's not the review. It's	6	shows that it doesn't occur.
7	the absence of such a study. And	7	BY MS. GARBER:
8	then not finding the studies on	8	Q. Doctor
9	animal models that don't show	9	A. You can go
10	ascension as not being persuasive.	10	Q. Doctor, if you can
11	BY MS. GARBER:	11	MS. CURRY: Are you finished
12	Q. Doctor, I reviewed your	12	with your response?
13	reference list, and I can find about	13	THE WITNESS: Yeah.
14	three studies with regard to the issue of	14	BY MS. GARBER:
15	migration. And my question to you is,	15	Q. Can you turn to Page
16	did you do a comprehensive review of the	16	A. Can I finish my answer?
17	literature with regard to the ability of	17	So
18	tale to migrate from the genitals to the	18	Q. You can finish.
19	perineum	19	A. Thank you.
20	MS. CURRY: Objection.	20	So the statement that says,
21	BY MS. GARBER:	21	"I've reviewed the small body of
22	Q or to the ovaries?	22	literature suggesting that migration of
23	MS. CURRY: Object to the	23	particles does not occur," they're
24	form.	24	describing that body of literature as
1			<i>J</i>

Kevin Holcomb, M.D.

Page 134 Page 136 1 1 you're going to develop a model to say -small. And I'm saying that there is no 2 body of literature showing that perineal 2 Q. Doctor, sorry, I'm just 3 3 going to cut you off. dusting of talc gets to the ovaries. 4 So you're comparing small to 4 A. Sure. 5 none, but you find the small 5 Q. My question was did you --6 non-persuasive. б it was just a really simple question. 7 7 Q. Doctor, if you can turn to Did you look at any other human studies. 8 Page 16 of your expert report. There is 8 And the answer was yes? a section on Page 16 titled "Migration of 9 9 A. Yes. 10 Talc Particles," correct? 10 Q. And then you mentioned one 11 A. Yes. 11 study; is that right? Were there any 12 O. And you mention the Wehner 12 other studies? 13 paper, correct? 13 MS. CURRY: Object to the 14 A. Yes. 14 form. 15 Q. And do you know what -- was 15 THE WITNESS: I would have 16 that an animal study or human study? 16 to go back and remind myself of 17 A. That was animals. 17 how many, but it was more than Q. All right. And then you 18 18 one. mentioned the Heller study. Was that a 19 19 BY MS. GARBER: 20 talc migration study? In other words, 20 Q. Do you have any other was talc placed at the genitals and 21 criticisms of plaintiffs' gynecologic 21 looked to see if it travels? 22 oncologists and the claim that they 22 selectively reviewed studies? Any other 2.3 A. No. 23 24 Q. Okay. And then you also 24 criticisms as to the body of literature? Page 135 Page 137 1 mentioned the Cramer study, right, the 1 A. I do. 2 2007 study? 2 MS. CURRY: Object to the 3 3 A. Yes. form. 2007, you said? 4 THE WITNESS: I do. I 4 5 Q. Yes. 5 looked at the literature in 6 A. Oh, yes, yes. 6 totality. So if you just restrict 7 Q. And then if we turn the page 7 to the epidemiologic data, I 8 over, you also mention the Gertig study; 8 looked at the case-control 9 is that right? 9 studies. I spent a fair amount of 10 time going through those, looking 10 A. Yes. Q. And then you mention the 11 for consistency and things like 11 12 Terry study? 12 that. 13 A. Right. 13 And then I looked at the Q. Doctor, did you look at any 14 cohort studies, which as you see 14 of the human studies where particulate 15 in my report I explain why they 15 was placed at the genitals or in the may -- they are generally 16 16 17 genitals and the ability to migrate? 17 considered to be less prone to A. What particular particulate 18 18 bias. are you talking about? 19 19 And then I read 20 Q. Any particulate. 20 Dr. Clarke-Pearson's report where 21 A. Yes. And I saw in expert --21 he almost -- I don't even think he 22 for example, in Dr. Birrer's report, I mentioned the cohort studies. 22 23 believe he discusses a study of carbon. 23 which to me was an important thing 24 But I think it's really important if 24 that you'd have to explain away if

PageID: 193758
Kevin Holcomb, M.D.

	Page 138		Page 140
1	you really believe that talc	1	THE WITNESS: That's
2	causes ovarian cancer.	2	correct.
3	I did as I mention, I	3	BY MS. GARBER:
4		4	
5	think they take as a given that	5	Q. And those papers relied on
	talc can migrate. And they're not alone in this. I don't I don't	6	plaintiffs' experts in support of their
6		1	biologically plausible mechanism of
7	think that they're alone in doing	7	carcinogenicity, true?
8	that. I read a number of papers	8	A. Yes, that's true.
9	that in the introduction will make	9	Q. And in Page 23 of your
10	statements like, "We all know talc	10	report you state, "I understand that
11	can get to the ovaries," and then	11	there are a number of irregularities in
12	offer no citation for it.	12	Dr. Saed's work and his lab notes."
13	And so I take issue with	13	What is your source of that
14	that as well.	14	statement?
15	BY MS. GARBER:	15	A. Dr. Birrer's expert report.
16	Q. Doctor, I didn't ask you for	16	Q. When did you read
17	a full list of your opinions.	17	Dr. Birrer's expert report?
18	A. I thought you did.	18	A. I'm trying to think.
19	Q. I asked you	19	Probably about maybe two weeks ago.
20	A. You asked me what areas do I	20	Can you tell me what you're
21	disagree with them.	21	referring to though?
22	Q. Okay. And you mentioned	22	Your your statement. You
23	MS. CURRY: Please let him	23	said you I made a a referral to
24	finish his response. You've cut	24	something about Dr. Saed, but you didn't
	Page 139		Page 141
1	him off twice now.	1	tell me where to find it.
2	MS. GARBER: That's because	2	Q. I just asked you generally,
3	he's talking in very large	3	Doctor.
4	paragraphs, and we're never going	4	Von von made mention
		=	You you made mention
5	to get anywhere if I don't.	5	that that his work and lab notes
5 6	to get anywhere if I don't.		that that his work and lab notes
	to get anywhere if I don't. MS. CURRY: If you ask these	5	that that his work and lab notes
6 7	to get anywhere if I don't. MS. CURRY: If you ask these broad, open-ended questions, he's	5 6	that that his work and lab notes A. I'm just asking where you're reading from, if you can
6	to get anywhere if I don't. MS. CURRY: If you ask these	5 6 7	that that his work and lab notes A. I'm just asking where you're
6 7 8	to get anywhere if I don't. MS. CURRY: If you ask these broad, open-ended questions, he's entitled to respond to it. MS. GARBER: All right.	5 6 7 8	that that his work and lab notes A. I'm just asking where you're reading from, if you can Q. At Page 23, Doctor. A. 23. Thank you.
6 7 8 9	to get anywhere if I don't. MS. CURRY: If you ask these broad, open-ended questions, he's entitled to respond to it.	5 6 7 8 9	that that his work and lab notes A. I'm just asking where you're reading from, if you can Q. At Page 23, Doctor.
6 7 8 9 10	to get anywhere if I don't. MS. CURRY: If you ask these broad, open-ended questions, he's entitled to respond to it. MS. GARBER: All right. I'll ask a different question. BY MS. GARBER:	5 6 7 8 9 10	that that his work and lab notes A. I'm just asking where you're reading from, if you can Q. At Page 23, Doctor. A. 23. Thank you. Q. So what's your source of
6 7 8 9 10 11 12	to get anywhere if I don't. MS. CURRY: If you ask these broad, open-ended questions, he's entitled to respond to it. MS. GARBER: All right. I'll ask a different question. BY MS. GARBER: Q. Doctor, did you review the	5 6 7 8 9 10 11 12	that that his work and lab notes A. I'm just asking where you're reading from, if you can Q. At Page 23, Doctor. A. 23. Thank you. Q. So what's your source of that statement? A. Hold on one second.
6 7 8 9 10 11 12 13	to get anywhere if I don't. MS. CURRY: If you ask these broad, open-ended questions, he's entitled to respond to it. MS. GARBER: All right. I'll ask a different question. BY MS. GARBER: Q. Doctor, did you review the Buz'Zard 2007, Shukla 2009 papers?	5 6 7 8 9 10 11	that that his work and lab notes A. I'm just asking where you're reading from, if you can Q. At Page 23, Doctor. A. 23. Thank you. Q. So what's your source of that statement? A. Hold on one second. Q. If you don't know, we'll
6 7 8 9 10 11 12 13 14	to get anywhere if I don't. MS. CURRY: If you ask these broad, open-ended questions, he's entitled to respond to it. MS. GARBER: All right. I'll ask a different question. BY MS. GARBER: Q. Doctor, did you review the Buz'Zard 2007, Shukla 2009 papers? A. Only with regard to the	5 6 7 8 9 10 11 12 13	that that his work and lab notes A. I'm just asking where you're reading from, if you can Q. At Page 23, Doctor. A. 23. Thank you. Q. So what's your source of that statement? A. Hold on one second. Q. If you don't know, we'll move on.
6 7 8 9 10 11 12 13 14 15	to get anywhere if I don't. MS. CURRY: If you ask these broad, open-ended questions, he's entitled to respond to it. MS. GARBER: All right. I'll ask a different question. BY MS. GARBER: Q. Doctor, did you review the Buz'Zard 2007, Shukla 2009 papers? A. Only with regard to the expert reports.	5 6 7 8 9 10 11 12 13 14 15	that that his work and lab notes A. I'm just asking where you're reading from, if you can Q. At Page 23, Doctor. A. 23. Thank you. Q. So what's your source of that statement? A. Hold on one second. Q. If you don't know, we'll move on. MS. CURRY: Just give him a
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	to get anywhere if I don't. MS. CURRY: If you ask these broad, open-ended questions, he's entitled to respond to it. MS. GARBER: All right. I'll ask a different question. BY MS. GARBER: Q. Doctor, did you review the Buz'Zard 2007, Shukla 2009 papers? A. Only with regard to the expert reports. Q. They're not on your reference list, are they? A. No. Q. And you did not review the Saed 2019 prior to signing your expert	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	that that his work and lab notes A. I'm just asking where you're reading from, if you can Q. At Page 23, Doctor. A. 23. Thank you. Q. So what's your source of that statement? A. Hold on one second. Q. If you don't know, we'll move on. MS. CURRY: Just give him a second to look at where you're reading from. THE WITNESS: I just want to get to yeah. BY MS. GARBER:
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PageID: 193759 Kevin Holcomb, M.D.

	Page 142		Page 144
1	on his reference list. You didn't look	1	Q. Are you planning to provide
2	at those, did you?	2	any comment?
3	MS. CURRY: Object to the	3	A. What I reviewed was a draft.
4	form.	4	So I'm not sure what Health Canada is
5	THE WITNESS: No.	5	going to finally decide to publish. So
6	BY MS. GARBER:	6	no, I didn't I didn't
7	Q. You haven't looked at all of	7	Q. Do
8	his work relating to talc and mechanism	8	MS. GARBER: Motion to
9	of carcinogenicity, right?	9	strike as nonresponsive.
10	A. No.	10	BY MS. GARBER:
11	Q. And with regard to your	11	Q. Doctor, I asked you, are you
12	reference list, you haven't reviewed	12	planning to provide any comment to Health
13	Health Canada's draft screening	13	Canada?
14	assessment with regard to talc dated	14	A. I'm saying perhaps I would
15	December of 2018, correct?	15	if I saw a final product that I thought
16	MS. CURRY: Object to the	16	was really egregious, but I've only
17	form.	17	reviewed a draft and so I I can't say
18	THE WITNESS: I did.	18	whether I would or not.
19	BY MS. GARBER:	19	Q. Doctor, do you understand
20	Q. Sorry?	20	that Health Canada has asked for public
21	A. I did.	21	comment?
22	Q. You did review it?	22	A. I didn't no, I wasn't
23	A. It's one of Dr. Saenz's	23	aware of the process.
24	exhibits.	24	Q. Okay. Have you ever been
	CAMORS.	24	Q. Okay. Have you ever been
	Page 143		Page 145
1	Q. Okay. And it's not listed	1	asked to testify at any United States or
2	on your reference list, correct?	2	state government proceedings with regard
3	MS. CURRY: Object to the	3	to talcum powder products?
4	form.	4	A. No.
5	THE WITNESS: I'd have to	5	Q. And you are not conducting
6	look through the reference list	6	any research, experimental research in
7	no, it was something that I	7	any capacity concerning talcum powder
8	reviewed as part of Dr. Saenz's	8	products and ovarian cancer, right?
9	exhibits.	9	-
			A. No.
10	BY MS. GARBER:	10	
	BY MS. GARBER:		A. No.Q. Are you planning to?A. No.
10	BY MS. GARBER: Q. So you have reviewed Health	10	Q. Are you planning to?A. No.
10 11	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report?	10 11 12	Q. Are you planning to?A. No.Q. Have you ever applied for a
10 11 12 13	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's	10 11	Q. Are you planning to?A. No.Q. Have you ever applied for a grant or monies to conduct a research on
10 11 12 13 14	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have	10 11 12 13 14	Q. Are you planning to?A. No.Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian
10 11 12 13 14 15	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it.	10 11 12 13 14 15	 Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer?
10 11 12 13 14 15 16	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that?	10 11 12 13 14	 Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No.
10 11 12 13 14 15 16 17	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago.	10 11 12 13 14 15 16 17	 Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018
10 11 12 13 14 15 16 17 18	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any	10 11 12 13 14 15 16 17 18	Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis?
10 11 12 13 14 15 16 17 18	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any comment letters or reports issued in	10 11 12 13 14 15 16 17 18 19	Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis? A. I have.
10 11 12 13 14 15 16 17 18 19 20	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any comment letters or reports issued in response to the Health Canada DSAR?	10 11 12 13 14 15 16 17 18 19 20	Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis? A. I have. Q. Yes?
10 11 12 13 14 15 16 17 18 19 20 21	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any comment letters or reports issued in response to the Health Canada DSAR? A. No.	10 11 12 13 14 15 16 17 18 19 20 21	Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis? A. I have. Q. Yes? A. Yes.
10 11 12 13 14 15 16 17 18 19 20 21 22	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any comment letters or reports issued in response to the Health Canada DSAR? A. No. Q. Have you been asked to	10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis? A. I have. Q. Yes? A. Yes. Q. When did you read that?
10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any comment letters or reports issued in response to the Health Canada DSAR? A. No. Q. Have you been asked to provide any comment to Health Canada?	10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis? A. I have. Q. Yes? A. Yes. Q. When did you read that? A. Same day I read the Health
10 11 12 13 14 15 16 17 18 19 20 21 22	BY MS. GARBER: Q. So you have reviewed Health Canada's December 2018 draft report? A. It's part of Dr it's part of Dr. Saenz's exhibits and I have reviewed it. Q. When did you review that? A. Maybe about a week ago. Q. Okay. Have you read any comment letters or reports issued in response to the Health Canada DSAR? A. No. Q. Have you been asked to	10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Are you planning to? A. No. Q. Have you ever applied for a grant or monies to conduct a research on talcum powder products and ovarian cancer? A. No. Q. Have you read the Taher 2018 meta-analysis? A. I have. Q. Yes? A. Yes. Q. When did you read that?

PageID: 193760 Kevin Holcomb, M.D.

	Dama 146		Dama 140
	Page 146		Page 148
1	Q. And that was not on any of	1	A. No, I have not.
2	your the Taher 2018 meta-analysis was	2	Q. And your expert report
3	not listed on any of your reference	3	contains Table 1, correct?
4	lists, correct?	4	A. Yes.
5	A. It is	5	Q. And what is the nature of
6	MS. CURRY: Object to the	6	Table 1?
7	form.	7	A. Table 1
8	THE WITNESS: It's also part	8	MS. CURRY: Table 1 in the
9	of the exhibits for Dr. Saenz.	9	copy that you marked is actually
10	BY MS. GARBER:	10	cut off.
11	Q. Could you go back to	11	Do you have a full version
12	Exhibit 6, please.	12	of it?
13	Doctor, you understand that	13	MS. GARBER: I do. It's
14	your reference lists provide me an	14	it's buried. But I'm going to
15	opportunity to know what literature you	15	mark it, so
16	have reviewed and relied on attendant to	16	BY MS. GARBER:
17	your expert opinions, correct?	17	Q. Are you able to tell me what
18	A. That's correct.	18	Table 1 contains?
19	Q. And if you look at Item 5 of	19	A. Yes.
20	Exhibit 6 which is your supplemental	20	Q. And what it is?
21	materials?	21	A. Table 1 is a list of
22	A. Yes.	22	case-control studies that I reviewed in
23		23	regard to this matter.
23 24	Q. Could you read Number 5 for	24	Q. Why did you create this
24	me, please?	24	Q. Why did you create this
	Page 147		Page 149
1	A. It says, "Expert report of	1	list?
2	Cheryl Saenz, M.D., February 25, 2019."	2	A. One, I wanted to show that I
3	Q. It doesn't say exhibits,	3	performed a comprehensive review. But I
4	does it?	4	guess largely what I saw mentions over
5	MS. CURRY: Object to the	5	and over again by plaintiffs' experts and
6	form. Number 3 discusses the	6	sometimes in other papers, the statement
7	deposition.	7	that the epidemiologic data consistently
8	BY MS. GARBER:	8	shows an increased risk of of ovarian
9	Q. Is that what it says,	9	cancer with talc exposure. And I think
10	Doctor? Does it say exhibits there, sir?	10	most people already know that that's only
11	MS. CURRY: Object to the	11	with case-control studies and none of the
12	form.	12	cohort studies if you include Gates and
13	THE WITNESS: It clearly	13	then update to Gertig.
14	doesn't say exhibits. Number 3 is	14	So then I wanted to look at
15	where it says exhibits, so I'm not	15	the case-control studies. And to see
16	sure why you're having me read all	16	could somebody use that term
17	of 5, when it clearly says on	17	consistently, maybe loosely, and what I
18	Number 3, "Deposition of Cheryl	18	consider consistent and they consider
19	Saenz, M.D., and exhibits,	19	consistent different.
20		20	
21	March 13, 2019."	20	And so I looked through this
22	BY MS. GARBER:	21	list of case-control studies. I looked
	Q. Okay. Doctor, have you		at those that showed a positive
23	spoken with any of the Taher study	23	association and had a 95 percent
24	authors?	24	confidence interval that would suggest it
47	audiois:		confidence interval that would suggest it

PageID: 193761 Kevin Holcomb, M.D.

Page 150 1 was statistically significant. And I 2 wanted to see what percentage of them, 3 that were not duplicates of the same 4 dataset actually showed this association. 5 And so my my review of 6 this list of case-control studies was 7 that I don't it came out to be 8 about 50/50 with a positive association. 9 Because I wanted to find out, would 10 would anybody call, you know, a 50/50 11 chance consistent. 12 Q. So you created Table 1 to 13 show or to support your claim that the 14 case-control studies were inconsistent 15 based on statistical significance. 16 Is that fair, Doctor? 17 MS. CURRY: Object to the 1 its levels were higher in women 2 specifically had clear cell carcing 3 Q. Do any of the publicating that do not appear on your reference to concern any of the issues that you relevant in this case? 4 MS. CURRY: Object to the 5 Concern any of the inconcern any of the publicating that do not appear on your clease that you have a specifically had clear cell carcing that do not appear on your reference to concern any of the publicating that do not appear on your CV, bibliography, do any are any or relevant as you deem them to the in this case? 15 And so my my review of that do not appear on your CV, bibliography, do any are any or relevant as you deem them to the in this case? 16 Is that fair, Doctor? 17 A. I just wanted to clarify.	oma. ons nce list u deem the repeat ons
wanted to see what percentage of them, that were not duplicates of the same dataset actually showed this association. And so my my review of this list of case-control studies was that I don't it came out to be about 50/50 with a positive association. Because I wanted to find out, would would anybody call, you know, a 50/50 that. Q. Do any of the publication that do not appear on your reference concern any of the issues that you relevant in this case? MS. CURRY: Object to form. MS. CURRY: Object to form. THE WITNESS: Please that. BY MS. GARBER: Q. Do any of the publication that. BY MS. GARBER: Q. Do any of the publication that do not appear on your CV, that do not appear on your CV, bibliography, do any are any of the publication that do not appear on your CV, that do not a	oma. ons nce list u deem the repeat ons
that were not duplicates of the same dataset actually showed this association. And so my my review of this list of case-control studies was that I don't it came out to be about 50/50 with a positive association. Because I wanted to find out, would would anybody call, you know, a 50/50 that. Q. Do any of the publication that do not appear on your reference concern any of the issues that you relevant in this case? MS. CURRY: Object to form. THE WITNESS: Please that. BY MS. GARBER: Q. Do any of the publication that. BY MS. GARBER: Q. Do any of the publication that. BY MS. GARBER: Q. Do any of the publication that. BY MS. GARBER: Q. Do any of the publication that. BY MS. GARBER: Q. Do any of the publication that. BY MS. GARBER: Q. Do any of the publication that do not appear on your CV, bibliography, do any are any or relevant as you deem them to the in this case?	ons nce list u deem the repeat ons f those
dataset actually showed this association. And so my my review of this list of case-control studies was that I don't it came out to be about 50/50 with a positive association. Because I wanted to find out, would would anybody call, you know, a 50/50 that. Chance consistent. Q. So you created Table 1 to show or to support your claim that the sase-control studies were inconsistent based on statistical significance. Is that fair, Doctor? 4 that do not appear on your reference concern any of the issues that you relevant in this case? 7 MS. CURRY: Object to form. 9 THE WITNESS: Please that. 10 Would anybody call, you know, a 50/50 that. 11 BY MS. GARBER: 12 Q. Do any of the publicating that do not appear on your CV, bibliography, do any are any or relevant as you deem them to the in this case?	the repeat
And so my my review of this list of case-control studies was that you relevant in this case? That I don't it came out to be about 50/50 with a positive association. Because I wanted to find out, would would anybody call, you know, a 50/50 that. Chance consistent. Q. So you created Table 1 to show or to support your claim that the case-control studies were inconsistent based on statistical significance. Is that fair, Doctor? So concern any of the issues that you relevant in this case? MS. CURRY: Object to form. THE WITNESS: Please that you relevant in this case?	the repeat
this list of case-control studies was that I don't it came out to be about 50/50 with a positive association. Because I wanted to find out, would would anybody call, you know, a 50/50 that. Chance consistent. Q. So you created Table 1 to show or to support your claim that the show or to support your claim that the show or to support your claim that the show or to studies were inconsistent based on statistical significance. Is that fair, Doctor? THE WITNESS: Please that. BY MS. GARBER: Q. Do any of the publication that do not appear on your CV, bibliography, do any are any of the publication that the the that the that the the that the that the that the the the that the that the the that the the that the that the the the that the the the the the the the the the th	the repeat ons
that I don't it came out to be about 50/50 with a positive association. Because I wanted to find out, would would anybody call, you know, a 50/50 that. Chance consistent. Q. So you created Table 1 to show or to support your claim that the show or to support your claim that the case-control studies were inconsistent based on statistical significance. Is that fair, Doctor? MS. CURRY: Object to form. BY MS. GARBER: Q. Do any of the publicati that do not appear on your CV, bibliography, do any are any of relevant as you deem them to the in this case?	repeat ons f those
8 about 50/50 with a positive association. 9 Because I wanted to find out, would 10 would anybody call, you know, a 50/50 11 chance consistent. 12 Q. So you created Table 1 to 13 show or to support your claim that the 14 case-control studies were inconsistent 15 based on statistical significance. 16 Is that fair, Doctor? 8 form. 9 THE WITNESS: Please that. 11 BY MS. GARBER: 12 Q. Do any of the publicating that do not appear on your CV, bibliography, do any are any or relevant as you deem them to the in this case?	repeat ons f those
8 about 50/50 with a positive association. 9 Because I wanted to find out, would 10 would anybody call, you know, a 50/50 11 chance consistent. 12 Q. So you created Table 1 to 13 show or to support your claim that the 14 case-control studies were inconsistent 15 based on statistical significance. 16 Is that fair, Doctor? 8 form. 9 THE WITNESS: Please that. 11 BY MS. GARBER: 12 Q. Do any of the publicating that do not appear on your CV, bibliography, do any are any or relevant as you deem them to the in this case?	repeat ons f those
9 Because I wanted to find out, would 10 would anybody call, you know, a 50/50 11 chance consistent. 12 Q. So you created Table 1 to 13 show or to support your claim that the 14 case-control studies were inconsistent 15 based on statistical significance. 16 Is that fair, Doctor? 9 THE WITNESS: Please that. 10 that. 11 BY MS. GARBER: 12 Q. Do any of the publicating that do not appear on your CV, bibliography, do any are any of the publication of the publicati	ons f those
would anybody call, you know, a 50/50 1 that. 1 chance consistent. 1 Q. So you created Table 1 to 1 show or to support your claim that the 1 case-control studies were inconsistent 1 based on statistical significance. 1 Is that fair, Doctor? 1 that. 1 BY MS. GARBER: 1 Q. Do any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography, do any are any of the publication that do not appear on your CV, 1 bibliography that do not appear on your CV, 1 bibliography that do not appear on your CV, 1 bibliography that do not appear on your CV, 1 bibliography that do not appear on your CV, 1 bibliography that do not appear on your CV, 1 bibliography that do not appear on your CV, 1 bibliography that do not appear on your CV, 1 bibliography that do not appear on your CV, 1 bibliography that do not appear on your CV, 1 bibliography that do not appear on your CV, 1 bibliography that do not appear on your CV, 1 bibliography that do not appea	ons f those
11 chance consistent. 12 Q. So you created Table 1 to 13 show or to support your claim that the 14 case-control studies were inconsistent 15 based on statistical significance. 16 Is that fair, Doctor? 11 BY MS. GARBER: 12 Q. Do any of the publicati that do not appear on your CV, 14 bibliography, do any are any of the publicati that do not appear on your CV, 15 relevant as you deem them to the in this case?	f those
13 show or to support your claim that the 14 case-control studies were inconsistent 15 based on statistical significance. 16 Is that fair, Doctor? 13 that do not appear on your CV, 14 bibliography, do any are any or relevant as you deem them to the in this case?	f those
13 show or to support your claim that the 14 case-control studies were inconsistent 15 based on statistical significance. 16 Is that fair, Doctor? 11 that do not appear on your CV, 14 bibliography, do any are any or 15 relevant as you deem them to the 16 in this case?	f those
14 case-control studies were inconsistent 15 based on statistical significance. 16 Is that fair, Doctor? 14 bibliography, do any are any of relevant as you deem them to the in this case?	
15 based on statistical significance. 15 relevant as you deem them to the 16 Is that fair, Doctor? 16 in this case?	
16 Is that fair, Doctor? 16 in this case?	
,	
11.51 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
18 form. 18 You're asking if any of the paper	s that
19 THE WITNESS: That's fair. 19 I'm a co-author or author on rele	
20 BY MS. GARBER: 20 this topic?	alli to
21 Q. Okay. Exhibit A at the back 21 Q. That do not appear on y	our
22 of your expert report is your CV, right? 22 CV?	Cui
23 A. Yes. 23 A. That do not appear on 1	ny CV?
24 Q. When did you last update it? 24 Q. Yes. The ones that you	
Q. When the you hast update it.	say
Page 151 Pa	ge 153
1 A. I believe this is the most 1 that are not published yet.	
2 recent copy. Let's see. 2 A. Oh, no.	
3 Let's see. This last paper 3 Q. No, they do not concer	1
4 is from January 2019, probably like 4 A. No, they do not concer	
5 February or maybe early March. 5 and ovarian cancer.	
6 Q. Do you need to make any 6 Q. Do you consider yours	elf a
7 amendments to make it accurate today? 7 research cancer biologist?	
8 A. I have a few more accepted 8 MS. CURRY: Object to	the
9 publications, but they are not up on 9 form.	
10 PubMed, so I don't think so. 10 THE WITNESS: No, I	would
11 Q. Do they concern ovarian 11 consider someone who does	
12 cancer? 12 basic science research a	J
13 A. No. Oh, hold on. I'm 13 biologist.	
14 sorry. 14 BY MS. GARBER:	
15 Yes. 15 Q. You don't conduct in v	tro
16 Q. In what capacity? 16 studies as part of your practice,	
17 A. There's one study, which 17 A. If you see my CV, you	
deals with early detection of ovarian 18 some studies that involve in vitr	
19 cancer where we looked at vaginal fluid 19 studies. So I collaborate with Pl	
20 as a potential biomarker for women who 20 So I'm part of a research team the	
21 have an adnexa mass to pick up whether 21 perform	4005
they have ovarian cancer. And we looked 22 Q. But you don't do the be	nch
23 at a chemical called LPA, 23 work, do you?	11011
24 lysophosphatidic acid, and showed that 24 A. I'm not doing the bench	1

PageID: 193762 Kevin Holcomb, M.D.

	Page 154		Page 156
1	work, no.	1	their opinions were based on informed
2	Q. All right. And you don't	2	scientific medical judgment?
3	have any degrees in epidemiology, right?	3	MS. CURRY: Object to the
4	A. No.	4	form.
5	Q. Did you review any internal	5	THE WITNESS: No.
6	documents of defendants in this case that	6	BY MS. GARBER:
7	were produced attendant to this	7	Q. You disagree with that?
8	litigation?	8	A. No.
9	A. No, I have not.	9	Q. Pardon?
10	Q. And do you understand that	10	A. I disagree with it.
11	United States Senate seeking internal	11	Q. Which experts and I don't
12	company documents relevant to their	12	need to know why. Which experts do you
13	investigation as to whether Johnson &	13	think of uninformed scientific opinions?
14	Johnson has misrepresented the truth	14	MS. CURRY: Object to the
15	about asbestos content in their talcum	15	form.
16	powder products?	16	THE WITNESS: I would say
17	A. I am aware.	17	Dr. Clarke-Pearson, Dr. Judith
18	Q. You understand that the	18	Wolf, Ellen Blair Smith.
19	public, which includes scientists, are	19	BY MS. GARBER:
20	not normally allowed to review internal	20	Q. Any others?
21	company documents because manufacturers	21	A. No, I would restrict it to
22	like Johnson & Johnson mark them	22	that.
23	confidential and disclosure can result in	23	Q. Okay. And your criticisms
24	violation of a protective order? Do you	24	of those particular doctors as referenced
	Page 155		Page 157
1	understand that?	1	in your expert report, does that consist
2	MS. CURRY: Object to the	2	of strike that.
3	form.	3	The opinions with regard to
4	THE WITNESS: No, I	4	plaintiffs' experts, Dr. Clarke-Pearson,
5	BY MS. GARBER:	5	Wolf, and Blair Smith, your criticisms of
6	Q. Do you understand how that	6	those experts are contained within your
7	works?	7	expert report; is that fair?
8	A. No, I didn't know that.	8	A. That's fair.
9	Q. You do?	9	Q. Do you agree that experts
10	A. I don't know that.	10	must use scientific judgment when
11	Q. Okay. Do I now have a full	11	assessing the literature for causality?
12	list of the documents that you considered	12	A. Yes, I do.
13	in formulating your opinions as	13	Q. And in assessing the
14	referenced in your expert report and	14	literature, one person's scientific
15	supplemental materials?	15	judgment may be different than another
16	A. Yes.	16	person's scientific judgment?
17	Q. Do you understand, Doctor,	17	MS. CURRY: Object to the
18	that I'm entitled to know the literature	18	form.
19	that you considered and the foundation	19	THE WITNESS: I believe
20	for your opinions?	20	scientific judgment has a role,
20	A 37	21	but I believe that there are
21	A. Yes.		
21 22	Q. And while you don't agree	22	things that are right and wrong as
21			things that are right and wrong as well. And I gave you an example of one of them, which was it's

PageID: 193763 Kevin Holcomb, M.D.

	Page 158		Page 160
1	wrong to say that something is	1	that informs the reader of the
2	consistently shown to be	2	methodology that you employed to render
3	associated with something if it's	3	your opinions.
4	not consistently shown.	4	A. I would have to point to my
5	And and I think for	5	description of the Bradford Hill
6		6	criteria.
7	statements like that, you can rely	7	
	on what the general population		Q. Where does that appear?
8	would consider consistency, or	8	A. I'll find it for you.
9	just any reasonable person. So if	9	Page 19.
10	someone says something is a	10	Q. Doctor, is that a
11	hallmark of a disease, and there's	11	methodology section? I asked you
12	no good evidence that it is even a	12	specifically if you could point me to the
13	part of the disease, then, you	13	methodology section.
14	know, that's not a judgment call	14	A. No. That does that is
15	at that point. That's the	15	not a methodology section.
16	difference between a misstatement	16	Q. And, in fact, you don't have
17	and a it's just a misstatement.	17	a methodology section in your report, do
18	BY MS. GARBER:	18	you?
19	Q. We will get to the issue of	19	A. I don't have a
20	consistency, Doctor.	20	MS. CURRY: Object to the
21	In addressing or in	21	form.
22	assessing strike that.	22	THE WITNESS: I don't have a
23	Do you agree that experts	23	specific section labeled
24	can reasonably weigh factors differently?	24	methodology, no.
	Page 159		Page 161
1	MS. CURRY: Object to the	1	BY MS. GARBER:
2	form.	2	Q. And, in fact, in the four
3	THE WITNESS: What I was	3	corners of your report you do not state
4	trying to get at, and I was hoping	4	anywhere the methodology that you
5	that we would be able to cover	5	employed in coming to your opinions. Is
6	this quickly, but probably not.	6	that also a true statement?
7	That	7	MS. CURRY: Object to the
8	BY MS. GARBER:	8	form.
9	Q. Doctor, just yes or no. And	9	THE WITNESS: Throughout my
10	you're	10	report, within the four corners
1			report, within the roan corners
11	A. I need no	11	•
11 12		11 12	one could see the methodology I'm
12	Q going to have an	12	one could see the methodology I'm using. And then I go onto explain
12 13	Q going to have an opportunity for your lawyer to ask you	12 13	one could see the methodology I'm using. And then I go onto explain where I got that methodology with
12 13 14	Q going to have an opportunity for your lawyer to ask you questions.	12 13 14	one could see the methodology I'm using. And then I go onto explain where I got that methodology with Bradford Hill.
12 13 14 15	Q going to have an opportunity for your lawyer to ask you questions.A. But ma'am, if you ask a	12 13 14 15	one could see the methodology I'm using. And then I go onto explain where I got that methodology with Bradford Hill. BY MS. GARBER:
12 13 14 15 16	Q going to have an opportunity for your lawyer to ask you questions. A. But ma'am, if you ask a question	12 13 14 15 16	one could see the methodology I'm using. And then I go onto explain where I got that methodology with Bradford Hill. BY MS. GARBER: Q. Doctor, you understand the
12 13 14 15 16 17	Q going to have an opportunity for your lawyer to ask you questions. A. But ma'am, if you ask a question MS. GARBER: Object to form.	12 13 14 15 16 17	one could see the methodology I'm using. And then I go onto explain where I got that methodology with Bradford Hill. BY MS. GARBER: Q. Doctor, you understand the methodology is important so that opinions
12 13 14 15 16 17 18	Q going to have an opportunity for your lawyer to ask you questions. A. But ma'am, if you ask a question MS. GARBER: Object to form. BY MS. GARBER:	12 13 14 15 16 17 18	one could see the methodology I'm using. And then I go onto explain where I got that methodology with Bradford Hill. BY MS. GARBER: Q. Doctor, you understand the methodology is important so that opinions can be replicated, right?
12 13 14 15 16 17 18 19	Q going to have an opportunity for your lawyer to ask you questions. A. But ma'am, if you ask a question MS. GARBER: Object to form. BY MS. GARBER: Q. I will withdraw the	12 13 14 15 16 17 18 19	one could see the methodology I'm using. And then I go onto explain where I got that methodology with Bradford Hill. BY MS. GARBER: Q. Doctor, you understand the methodology is important so that opinions can be replicated, right? When you're reviewing a
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12 13 14 15 16 17 18 19 20 21	Q going to have an opportunity for your lawyer to ask you questions. A. But ma'am, if you ask a question MS. GARBER: Object to form. BY MS. GARBER: Q. I will withdraw the question. A. Okay.	12 13 14 15 16 17 18 19 20 21	one could see the methodology I'm using. And then I go onto explain where I got that methodology with Bradford Hill. BY MS. GARBER: Q. Doctor, you understand the methodology is important so that opinions can be replicated, right? When you're reviewing a study, there's a methods section, so that the evaluation can be replicated. You
12 13 14 15 16 17 18 19 20 21 22	Q going to have an opportunity for your lawyer to ask you questions. A. But ma'am, if you ask a question MS. GARBER: Object to form. BY MS. GARBER: Q. I will withdraw the question. A. Okay. Q. Doctor, with regard to	12 13 14 15 16 17 18 19 20 21 22	one could see the methodology I'm using. And then I go onto explain where I got that methodology with Bradford Hill. BY MS. GARBER: Q. Doctor, you understand the methodology is important so that opinions can be replicated, right? When you're reviewing a study, there's a methods section, so that the evaluation can be replicated. You understand that, right?
12 13 14 15 16 17 18 19 20 21 22 23	Q going to have an opportunity for your lawyer to ask you questions. A. But ma'am, if you ask a question MS. GARBER: Object to form. BY MS. GARBER: Q. I will withdraw the question. A. Okay. Q. Doctor, with regard to methodology, will you please point me to	12 13 14 15 16 17 18 19 20 21 22 23	one could see the methodology I'm using. And then I go onto explain where I got that methodology with Bradford Hill. BY MS. GARBER: Q. Doctor, you understand the methodology is important so that opinions can be replicated, right? When you're reviewing a study, there's a methods section, so that the evaluation can be replicated. You understand that, right? A. Yes.
12 13 14 15 16 17 18 19 20 21 22	Q going to have an opportunity for your lawyer to ask you questions. A. But ma'am, if you ask a question MS. GARBER: Object to form. BY MS. GARBER: Q. I will withdraw the question. A. Okay. Q. Doctor, with regard to	12 13 14 15 16 17 18 19 20 21 22	one could see the methodology I'm using. And then I go onto explain where I got that methodology with Bradford Hill. BY MS. GARBER: Q. Doctor, you understand the methodology is important so that opinions can be replicated, right? When you're reviewing a study, there's a methods section, so that the evaluation can be replicated. You understand that, right?

PageID: 193764 Kevin Holcomb, M.D.

1 2	form.	1	4 4 1 4 4 4 6 1
			the studies that you're referring
_	BY MS. GARBER:	2	to, I did not specifically mention
3	Q. You don't have a methodology	3	those studies at the time that I
4	section in your report where	4	presented my opinion, because my
5	A. I do not.	5	view of the Bradford Hill criteria
6	Q. Thank you.	6	was that there's a reason why the
7	Doctor, if we could move	7	first one is strength of
8	onto your statements about plaintiffs'	8	association and the second is
9	criticism of not reviewing the totality	9	consistency. And that I felt that
10	of the literature.	10	my reasoning showing the
11	I want to ask some questions	11	inconsistencies there, that
12	of you.	12	it's it's an interesting
13	You did not review the	13	question to look at biological
14	totality of the literature relating to	14	plausibility and and but
15	biologic plausibility, because you did	15	when you have such weakness in the
16	not review the Shukla, Buz'Zard, Saed	16	epidemiologic data, I did not
17	references before rendering your expert	17	spend as much time going through
18	opinion in the case?	18	the biologic plausibility other
19	MS. CURRY: Object to the	19	than to the degree that I did,
20	form.	20	because I think and it's full
21	BY MS. GARBER:	21	of weaknesses there as well.
22	Q. In in this case. Do you	22	But no, my opinion, just
23	agree with that?	23	even based on the epidemiology
24	MS. CURRY: Object to the	24	is is that there isn't a
	Page 163		Page 165
1	form.	1	consistent finding of an
2	THE WITNESS: I believe that	2	association with talc use and
3	even though it's I didn't have	3	ovarian cancer.
4	a methodology section, I did	4	BY MS. GARBER:
5	approach this in a method	5	Q. Doctor, is it your testimony
6	methodical way	6	that if you look at the epidemiological
7	BY MS. GARBER:	7	literature and you find it weak, you
8	Q. Doctor, I didn't ask you	8	don't then need to go on and review the
9	about your methodology.	9	biologic plausibility to render a
10	A. If I if I can finish my	10	causation opinion?
11	answer, please.	11	MS. CURRY: Object to the
12	MS. CURRY: Please stop	12	form.
13	cutting him off.	13	BY MS. GARBER:
14	THE WITNESS: So	14	Q. Is that your is that your
15	MS. GARBER: Motion to	15	opinion?
16	strike.	16	A. That is not my opinion.
17	BY MS. GARBER:	17	Q. Okay.
18	Q. My question was about	18	A. And that's not what I'm
19	Shukla, Buz'Zard and Saez	19	saying.
20	MS. SHARKO: You have to let	20	Q. So and, Doctor, you did
21	him finish his answer. You are	21	not review studies that looked at the
22	not allowed to interrupt. Now be	22	biologic plausibility for tale and
		. 22	
23 24	polite please. THE WITNESS: With regard to	23 24	ovarian cancer which included Shukla, Buz'Zard, and Saed before signing your

PageID: 193765 Kevin Holcomb, M.D.

	Page 166		Page 168
1	report, correct?	1	She's asking him to respond to the
2	MS. CURRY: Object to the	2	question.
3	form.	3	And if Dr. Holcomb continues
4	THE WITNESS: I would argue	4	not to answer a question, it's an
5	that Buz'Zard is not	5	appropriate issue to take to
6	BY MS. GARBER:	6	Judge Pisano and that's what we're
7	Q. Doctor, yes or no, did you	7	going to do. So so
8	review those or not?	8	MR. MIZGALA: I want to
9	MS. CURRY: Object to the	9	insert here. Because you're
10	form.	10	not she's not just asking him
11	THE WITNESS: I don't	11	yes or no about the studies.
12	MS. CURRY: Please let him	12	She's characterizing the studies
13	finish his response.	13	in a specific manner and he
14	THE WITNESS: You're	14	disagrees with that. I think he
15	you're looking for yes or no	15	should be able to explain that.
16	simple answers and you keep	16	THE WITNESS: That's exactly
17	BY MS. GARBER:	17	my feeling about it. It's, the
18	Q. I'm not looking for	18	question is did I review the
19	paragraphs, Doctor.	19	study
20	A but but you keep	20	BY MS. GARBER:
21	telling me that you're here to clarify my	21	Q. Doctor, there's no question
22	answers. But whenever I get started with	22	pending.
23	an answer you cut me off, which makes me	23	Did you
24	wonder are you really here to clarify my	24	MS. SHARKO: All right. So
	Page 167		Page 169
1	answers. Because I can explain to you.	1	all prior questions are withdrawn.
2			an prior questions are witharawn.
4	Buz'Zard	2	MS. GARBER: No
3	Buz'Zard Q. I didn't ask you for an	2 3	
			MS. GARBER: No
3	Q. I didn't ask you for an	3	MS. GARBER: No MS. SHARKO: She will now
3 4	Q. I didn't ask you for an explanation. I asked you, were they	3 4	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully
3 4 5	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was	3 4 5	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you
3 4 5 6	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no	3 4 5 6	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to
3 4 5 6 7	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last	3 4 5 6 7	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant
3 4 5 6 7 8	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last question? Can you go back to the	3 4 5 6 7 8	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant interrupting that we've had over
3 4 5 6 7 8 9	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last question? Can you go back to the question?	3 4 5 6 7 8	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant interrupting that we've had over the last few days, then we will.
3 4 5 6 7 8 9	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last question? Can you go back to the question? Q. Doctor, you understand I'm	3 4 5 6 7 8 9	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant interrupting that we've had over the last few days, then we will. MS. O'DELL: We're here for
3 4 5 6 7 8 9 10	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last question? Can you go back to the question? Q. Doctor, you understand I'm here to ask questions and you're here to	3 4 5 6 7 8 9 10	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant interrupting that we've had over the last few days, then we will. MS. O'DELL: We're here for the day. Not for the last few
3 4 5 6 7 8 9 10 11	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last question? Can you go back to the question? Q. Doctor, you understand I'm here to ask questions and you're here to answer them. A. I'm asking you to repeat your question.	3 4 5 6 7 8 9 10 11 12	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant interrupting that we've had over the last few days, then we will. MS. O'DELL: We're here for the day. Not for the last few days. And the questions aren't
3 4 5 6 7 8 9 10 11 12 13	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last question? Can you go back to the question? Q. Doctor, you understand I'm here to ask questions and you're here to answer them. A. I'm asking you to repeat	3 4 5 6 7 8 9 10 11 12 13	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant interrupting that we've had over the last few days, then we will. MS. O'DELL: We're here for the day. Not for the last few days. And the questions aren't withdrawn. You're welcome to pose
3 4 5 6 7 8 9 10 11 12 13 14	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last question? Can you go back to the question? Q. Doctor, you understand I'm here to ask questions and you're here to answer them. A. I'm asking you to repeat your question.	3 4 5 6 7 8 9 10 11 12 13 14	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant interrupting that we've had over the last few days, then we will. MS. O'DELL: We're here for the day. Not for the last few days. And the questions aren't withdrawn. You're welcome to pose a new question.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last question? Can you go back to the question? Q. Doctor, you understand I'm here to ask questions and you're here to answer them. A. I'm asking you to repeat your question. MS. CURRY: Ms. Garber, you're not letting him answer the	3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant interrupting that we've had over the last few days, then we will. MS. O'DELL: We're here for the day. Not for the last few days. And the questions aren't withdrawn. You're welcome to pose a new question. And and I wanted to say for the record the suggestion that
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last question? Can you go back to the question? Q. Doctor, you understand I'm here to ask questions and you're here to answer them. A. I'm asking you to repeat your question. MS. CURRY: Ms. Garber, you're not letting him answer the question. And please, you can't keep talking over each other. MS. O'DELL: That's really	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant interrupting that we've had over the last few days, then we will. MS. O'DELL: We're here for the day. Not for the last few days. And the questions aren't withdrawn. You're welcome to pose a new question. And and I wanted to say for the record the suggestion that Ms. Garber is not being polite is incorrect, Ms. Sharko. MS. SHARKO: I disagree.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last question? Can you go back to the question? Q. Doctor, you understand I'm here to ask questions and you're here to answer them. A. I'm asking you to repeat your question. MS. CURRY: Ms. Garber, you're not letting him answer the question. And please, you can't keep talking over each other. MS. O'DELL: That's really not fair. If she's if she's	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant interrupting that we've had over the last few days, then we will. MS. O'DELL: We're here for the day. Not for the last few days. And the questions aren't withdrawn. You're welcome to pose a new question. And and I wanted to say for the record the suggestion that Ms. Garber is not being polite is incorrect, Ms. Sharko. MS. SHARKO: I disagree. But let's go on.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last question? Can you go back to the question? Q. Doctor, you understand I'm here to ask questions and you're here to answer them. A. I'm asking you to repeat your question. MS. CURRY: Ms. Garber, you're not letting him answer the question. And please, you can't keep talking over each other. MS. O'DELL: That's really not fair. If she's if she's asking whether the doctor has	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant interrupting that we've had over the last few days, then we will. MS. O'DELL: We're here for the day. Not for the last few days. And the questions aren't withdrawn. You're welcome to pose a new question. And and I wanted to say for the record the suggestion that Ms. Garber is not being polite is incorrect, Ms. Sharko. MS. SHARKO: I disagree. But let's go on. There's a lot of silence.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. I didn't ask you for an explanation. I asked you, were they listed, yes or no. And your answer was no A. Can you go back to your last question? Can you go back to the question? Q. Doctor, you understand I'm here to ask questions and you're here to answer them. A. I'm asking you to repeat your question. MS. CURRY: Ms. Garber, you're not letting him answer the question. And please, you can't keep talking over each other. MS. O'DELL: That's really not fair. If she's if she's asking whether the doctor has reviewed a study, that's a yes or	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. GARBER: No MS. SHARKO: She will now ask a question and hopefully she'll be polite and let you answer it. If we have to go to the judge about the constant interrupting that we've had over the last few days, then we will. MS. O'DELL: We're here for the day. Not for the last few days. And the questions aren't withdrawn. You're welcome to pose a new question. And and I wanted to say for the record the suggestion that Ms. Garber is not being polite is incorrect, Ms. Sharko. MS. SHARKO: I disagree. But let's go on. There's a lot of silence. Are you going to ask a question,

PageID: 193766 Kevin Holcomb, M.D.

	Page 170		Page 172
1	MS. GARBER: I'm going to	1	MS. CURRY: Object to the
2	I'm going to ask a question.	2	form.
3	MS. SHARKO: Great. Thank	3	BY MS. GARBER:
4	you.	4	Q. Do you mention her
5	BY MS. GARBER:	5	reference his references with regard
6	Q. Doctor, you did not review	6	to causation?
7	Dr. Longo's testing of talcum powder	7	MS. CURRY: Object to the
8	products for the presence of asbestos,	8	form.
9	fibrous tale, heavy metals and the like,	9	THE WITNESS: No. I
10	correct?	10	reference his study, not his
11	A. That's correct.	11	discussion section.
12	Q. And you did not present or	12	BY MS. GARBER:
13	discuss the study design limitations with	13	Q. Okay. In your critique of
14	the cohort studies. Do you agree with	14	plaintiffs' experts' opinions, you do not
15	that, yes or no?	15	state the methodology used in coming to
16	MS. CURRY: Object to the	16	those opinions, correct?
17	form.	17	MS. CURRY: Object to the
18	THE WITNESS: Please repeat.	18	form.
19	BY MS. GARBER:	19	THE WITNESS: I do discuss
20	Q. Did you you did not	20	the methodology that I used. I
21	present and discuss the study design	21	don't have a methodology section
22	limitations of the cohort studies, yes or	22	that you discussed.
23	no?	23	BY MS. GARBER:
24	A. I'd have to read through the	24	Q. You don't discuss the
	Page 171		Page 173
1	report again. I don't remember.	1	methodology that you employed in
2	Q. You can't answer that	2	rendering critiques of plaintiffs'
3	question?	3	experts' opinions, correct?
4	A. I can't.	4	MS. CURRY: Object to the
5	Q. Okay. Is it true, Doctor	5	form.
6	4 4 11 4 11 1 6	_	Torm.
0	that you did not provide a word of	6	THE WITNESS: I just discuss
7	analysis in your report regarding the		
	analysis in your report regarding the contrary data to your causation opinion	6	THE WITNESS: I just discuss
7 8 9	analysis in your report regarding the contrary data to your causation opinion specifically with regard to	6 7 8 9	THE WITNESS: I just discuss and describe my critiques, yes. BY MS. GARBER: Q. Wouldn't you agree, Doctor,
7 8 9 10	analysis in your report regarding the contrary data to your causation opinion specifically with regard to Penninkilampi, Health Canada or the Taher	6 7 8 9 10	THE WITNESS: I just discuss and describe my critiques, yes. BY MS. GARBER: Q. Wouldn't you agree, Doctor, that there's medical consensus that the
7 8 9 10 11	analysis in your report regarding the contrary data to your causation opinion specifically with regard to Penninkilampi, Health Canada or the Taher paper?	6 7 8 9 10 11	THE WITNESS: I just discuss and describe my critiques, yes. BY MS. GARBER: Q. Wouldn't you agree, Doctor, that there's medical consensus that the female genital tract is an open system to
7 8 9 10 11 12	analysis in your report regarding the contrary data to your causation opinion specifically with regard to Penninkilampi, Health Canada or the Taher paper? MS. CURRY: Object to the	6 7 8 9 10 11 12	THE WITNESS: I just discuss and describe my critiques, yes. BY MS. GARBER: Q. Wouldn't you agree, Doctor, that there's medical consensus that the female genital tract is an open system to facilitate the passage of menses and
7 8 9 10 11 12 13	analysis in your report regarding the contrary data to your causation opinion specifically with regard to Penninkilampi, Health Canada or the Taher paper? MS. CURRY: Object to the form.	6 7 8 9 10 11 12 13	THE WITNESS: I just discuss and describe my critiques, yes. BY MS. GARBER: Q. Wouldn't you agree, Doctor, that there's medical consensus that the female genital tract is an open system to facilitate the passage of menses and promote retrograde movement of sperm?
7 8 9 10 11 12 13 14	analysis in your report regarding the contrary data to your causation opinion specifically with regard to Penninkilampi, Health Canada or the Taher paper? MS. CURRY: Object to the form. BY MS. GARBER:	6 7 8 9 10 11 12 13 14	THE WITNESS: I just discuss and describe my critiques, yes. BY MS. GARBER: Q. Wouldn't you agree, Doctor, that there's medical consensus that the female genital tract is an open system to facilitate the passage of menses and promote retrograde movement of sperm? MS. CURRY: Object to the
7 8 9 10 11 12 13 14 15	analysis in your report regarding the contrary data to your causation opinion specifically with regard to Penninkilampi, Health Canada or the Taher paper? MS. CURRY: Object to the form. BY MS. GARBER: Q. Is that true?	6 7 8 9 10 11 12 13 14 15	THE WITNESS: I just discuss and describe my critiques, yes. BY MS. GARBER: Q. Wouldn't you agree, Doctor, that there's medical consensus that the female genital tract is an open system to facilitate the passage of menses and promote retrograde movement of sperm? MS. CURRY: Object to the form.
7 8 9 10 11 12 13 14 15 16	analysis in your report regarding the contrary data to your causation opinion specifically with regard to Penninkilampi, Health Canada or the Taher paper? MS. CURRY: Object to the form. BY MS. GARBER: Q. Is that true? A. Please repeat one more time.	6 7 8 9 10 11 12 13 14 15 16	THE WITNESS: I just discuss and describe my critiques, yes. BY MS. GARBER: Q. Wouldn't you agree, Doctor, that there's medical consensus that the female genital tract is an open system to facilitate the passage of menses and promote retrograde movement of sperm? MS. CURRY: Object to the form. THE WITNESS: Yes.
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7 8 9 10 11 12 13 14 15 16 17	analysis in your report regarding the contrary data to your causation opinion specifically with regard to Penninkilampi, Health Canada or the Taher paper? MS. CURRY: Object to the form. BY MS. GARBER: Q. Is that true? A. Please repeat one more time. Q. Your report does not provide a word of analysis regarding the contrary	6 7 8 9 10 11 12 13 14 15 16 17	THE WITNESS: I just discuss and describe my critiques, yes. BY MS. GARBER: Q. Wouldn't you agree, Doctor, that there's medical consensus that the female genital tract is an open system to facilitate the passage of menses and promote retrograde movement of sperm? MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Let's talk about your
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PageID: 193767 Kevin Holcomb, M.D.

	Page 174		Page 176
1		1	BY MS. GARBER:
2	biologically plausible mechanism whereby talcum powder products can migrate from a	2	Q. Is your opinion limited to
3	woman's genitals to her ovaries?	3	there's no credible evidence
4	MS. CURRY: Object to the	4	MS. CURRY: Object to the
5	form.	5	form.
6	THE WITNESS: Is it my	6	BY MS. GARBER:
7	opinion that it does not provide?	7	Q that talc is associated
8	BY MS. GARBER:	8	with ovarian cancer?
9	Q. Correct.	9	
10	A. The answer would be yes.	10	MS. CURRY: Object to the form.
11	Q. Is it your opinion that the	11	THE WITNESS: This is going
12	literature does not provide a	12	to be tough for yes or no. I
13	biologically plausible mechanism whereby	13	can't answer that with a yes or
14	talcum powder products can induce chronic	14	•
15	inflammation, resulting in ovarian	15	no. BY MS. GARBER:
16	cancer?	16	Q. Okay. As a gynecologic
17	A. I believe that it proves	17	oncologist, you're a member of the
18	that it can cause chronic inflammation.	18	Society For Gynecologic Oncology, right?
19	I don't believe that it's been proven	19	A. Correct.
20	that that causes ovarian cancer.	20	Q. And you've served as a
21		21	reviewer for the publications submitted
22	Q. Is it your opinion that talcum powder products do not increase	22	to the Journal of Gynecologic Oncology,
23	the risk of developing ovarian cancer?	23	, ,
24	A. Yes.	24	right? A. Correct.
24	A. 168.	24	A. Correct.
	Page 175		Page 177
			_
1	Q. And if talcum powder	1	Q. And I assume that you
1 2	Q. And if talcum powder products contain asbestos, does that	1 2	
	products contain asbestos, does that		Q. And I assume that you
2		2	Q. And I assume that you believe the journal the journal is a
2	products contain asbestos, does that opinion change?	2 3	Q. And I assume that you believe the journal the journal is a reliable source for study data generally?
2 3 4	products contain asbestos, does that opinion change? A. No.	2 3 4	Q. And I assume that you believe the journal the journal is a reliable source for study data generally? MS. CURRY: Object to the
2 3 4 5	products contain asbestos, does that opinion change? A. No. Q. Is it your opinion that	2 3 4 5	Q. And I assume that you believe the journal the journal is a reliable source for study data generally? MS. CURRY: Object to the form.
2 3 4 5 6	products contain asbestos, does that opinion change? A. No. Q. Is it your opinion that talcum powder products do not cause	2 3 4 5 6	Q. And I assume that you believe the journal the journal is a reliable source for study data generally? MS. CURRY: Object to the form. THE WITNESS: What's your
2 3 4 5 6 7	products contain asbestos, does that opinion change? A. No. Q. Is it your opinion that talcum powder products do not cause ovarian cancer?	2 3 4 5 6 7	Q. And I assume that you believe the journal the journal is a reliable source for study data generally? MS. CURRY: Object to the form. THE WITNESS: What's your definition of reliable?
2 3 4 5 6 7 8	products contain asbestos, does that opinion change? A. No. Q. Is it your opinion that talcum powder products do not cause ovarian cancer? A. I don't have an opinion.	2 3 4 5 6 7 8	Q. And I assume that you believe the journal the journal is a reliable source for study data generally? MS. CURRY: Object to the form. THE WITNESS: What's your definition of reliable? BY MS. GARBER:
2 3 4 5 6 7 8 9	products contain asbestos, does that opinion change? A. No. Q. Is it your opinion that talcum powder products do not cause ovarian cancer? A. I don't have an opinion. I'm sorry. Talcum powder is did you	2 3 4 5 6 7 8 9	Q. And I assume that you believe the journal the journal is a reliable source for study data generally? MS. CURRY: Object to the form. THE WITNESS: What's your definition of reliable? BY MS. GARBER: Q. What do you think it means?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	products contain asbestos, does that opinion change? A. No. Q. Is it your opinion that talcum powder products do not cause ovarian cancer? A. I don't have an opinion. I'm sorry. Talcum powder is did you ask the same question twice? Q. No. One was risk, one was cause. A. Oh. Q. Is it your opinion that talcum powder products do not cause ovarian cancer? A. That's my opinion. Q. Is it your opinion that there is no evidence that talc is associated with ovarian cancer? MS. CURRY: Object to the form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And I assume that you believe the journal the journal is a reliable source for study data generally? MS. CURRY: Object to the form. THE WITNESS: What's your definition of reliable? BY MS. GARBER: Q. What do you think it means? A. I don't use that term reliable. So I wouldn't use that term. Q. Do you read the journal? A. Yes, I do. Q. And the data that's contained therein generally, do you deem it reliable for what it provides or do you think it's not credible? MS. CURRY: Object to the form. THE WITNESS: Again, if you're saying I believe it's reliable, do I assume that

PageID: 193768 Kevin Holcomb, M.D.

	Kevin Hold		
	Page 178		Page 180
1	assumption that we hold in	1	Q. Okay. I'm going to show you
2	academic medicine. And, yes, I	2	a paper, Doctor. I don't believe it was
3	make that assumption for	3	cited in your expert report.
4	gynecologic oncology.	4	(Document marked for
5	There's no way for a	5	identification as Exhibit
6	reviewer or someone else to know	6	Holcomb-8.)
7	if someone is giving you false	7	BY MS. GARBER:
8	information. We assume it's all	8	Q. I'm going to mark as
9	valid and that they've not lied	9	Exhibit 8 oh, sorry.
10	about anything. So is that what	10	Doctor, this is a paper that
11	you mean by reliable?	11	is published in Gynecologic Oncology
12	BY MS. GARBER:	12	titled "Talc and Ovarian Cancer" by
13	Q. Have you had an experience	13	Steven Narod, the date of this study is
14	as a reviewer for Gynecologic Oncology	14	2016.
15	where authors submitted false data?	15	Have you read this paper
16	A. What I'm saying is we don't	16	before?
17	ask for raw data. I've never let me	17	A. I've seen it before, yes.
18	say I. I have never asked a submitting	18	Q. And when did you see it?
19	say 1. I have never asked a submitting scientist for their raw data so that I	19	A. When it came out.
20		20	Q. Okay. Did you review it as
21	could look for irregularities. There is a general understanding that you are	21	a reviewer for
22		22	
23	trusting the person is giving you their	23	
	findings, and you're reviewing them with	24	Q. Thank you. Let me let me
24	that understanding.	24	get that clear.
	- 150		
	Page 179		Page 181
1		1	
1 2	Q. And based on the fact that	1 2	Did you review this paper
2	Q. And based on the fact that you're a reviewer for Gynecologic	2	Did you review this paper prior to its publication attendant to
2 3	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data	2	Did you review this paper prior to its publication attendant to your reviewer role from time to time with
2 3 4	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data presented in that journal?	2 3 4	Did you review this paper prior to its publication attendant to your reviewer role from time to time with Gynecologic Oncology?
2 3 4 5	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data presented in that journal? MS. CURRY: Object to the	2 3 4 5	Did you review this paper prior to its publication attendant to your reviewer role from time to time with Gynecologic Oncology? A. I did not review this paper
2 3 4	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data presented in that journal? MS. CURRY: Object to the form.	2 3 4	Did you review this paper prior to its publication attendant to your reviewer role from time to time with Gynecologic Oncology? A. I did not review this paper before publication.
2 3 4 5 6 7	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data presented in that journal? MS. CURRY: Object to the form. THE WITNESS: When you	2 3 4 5 6 7	Did you review this paper prior to its publication attendant to your reviewer role from time to time with Gynecologic Oncology? A. I did not review this paper before publication. Q. Okay. Let's look at some of
2 3 4 5 6 7 8	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data presented in that journal? MS. CURRY: Object to the form. THE WITNESS: When you say unfortunately, when you say	2 3 4 5 6 7 8	Did you review this paper prior to its publication attendant to your reviewer role from time to time with Gynecologic Oncology? A. I did not review this paper before publication. Q. Okay. Let's look at some of the statements that are therein.
2 3 4 5 6 7 8	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data presented in that journal? MS. CURRY: Object to the form. THE WITNESS: When you say unfortunately, when you say "trust"	2 3 4 5 6 7 8	Did you review this paper prior to its publication attendant to your reviewer role from time to time with Gynecologic Oncology? A. I did not review this paper before publication. Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data presented in that journal? MS. CURRY: Object to the form. THE WITNESS: When you say "trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not falsifying results. To that degree, I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Did you review this paper prior to its publication attendant to your reviewer role from time to time with Gynecologic Oncology? A. I did not review this paper before publication. Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here at the Elmo.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data presented in that journal? MS. CURRY: Object to the form. THE WITNESS: When you say "trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not falsifying results. To that degree, I trust those results just as much as any	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Did you review this paper prior to its publication attendant to your reviewer role from time to time with Gynecologic Oncology? A. I did not review this paper before publication. Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here at the Elmo. A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data presented in that journal? MS. CURRY: Object to the form. THE WITNESS: When you say "trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not falsifying results. To that degree, I trust those results just as much as any other journal.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Did you review this paper prior to its publication attendant to your reviewer role from time to time with Gynecologic Oncology? A. I did not review this paper before publication. Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here at the Elmo. A. Yes. Q. And see where I am. I'm at
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data presented in that journal? MS. CURRY: Object to the form. THE WITNESS: When you say "trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not falsifying results. To that degree, I trust those results just as much as any other journal. Whether I find the findings of every study valid, no. Just because	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Did you review this paper prior to its publication attendant to your reviewer role from time to time with Gynecologic Oncology? A. I did not review this paper before publication. Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here at the Elmo. A. Yes. Q. And see where I am. I'm at the bottom of 2, Page 2. Left-hand column.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data presented in that journal? MS. CURRY: Object to the form. THE WITNESS: When you say "trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not falsifying results. To that degree, I trust those results just as much as any other journal. Whether I find the findings of every study valid, no. Just because it's in GYN Oncology does not mean that I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Did you review this paper prior to its publication attendant to your reviewer role from time to time with Gynecologic Oncology? A. I did not review this paper before publication. Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here at the Elmo. A. Yes. Q. And see where I am. I'm at the bottom of 2, Page 2. Left-hand column. A. Okay. Left-hand column.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And based on the fact that you're a reviewer for Gynecologic Oncology, do you tend to trust the data presented in that journal? MS. CURRY: Object to the form. THE WITNESS: When you say "trust" BY MS. GARBER: Q. That was your word, Doctor. A. You may disagree with the findings, but the word when I use the word "trust," that's why I keep on coming back to believing that what the person is giving you is valid, this is actually what they did, that they're not falsifying results. To that degree, I trust those results just as much as any other journal. Whether I find the findings of every study valid, no. Just because	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Did you review this paper prior to its publication attendant to your reviewer role from time to time with Gynecologic Oncology? A. I did not review this paper before publication. Q. Okay. Let's look at some of the statements that are therein. If you look at, Doctor, the bottom of Page 2. The very last sentence at the bottom of Page 2. And, Doctor, it reads: "In any case, given the number of hazard ratios reported in the literature" A. I'm I'm sorry, I'm looking for you. Bottom of 2. Q. Doctor, you can look up here at the Elmo. A. Yes. Q. And see where I am. I'm at the bottom of 2, Page 2. Left-hand column.

Document 32999-25 PageID: 193769

Kevin Holcomb, M.D.

Page 182 Page 184 1 Q. And -- and it says, "This 1 inconsistency. Some are positive and 2 article about talc and ovarian cancer 2 some are negative. 3 3 So you read it correctly. I indicates in any case given the number of think it's a contradictory statement. 4 hazard ratios reported in the literature 4 5 between 1.1 and 1.4 in both case-control 5 He's saying they are consistent, and then 6 and cohort studies, it would be 6 says some are positive, some are 7 negative. That's not my definition of 7 disingenuous to state that there is no 8 evidence that talc is associated with 8 consistency. 9 9 ovarian cancer." Q. Doctor, this study author 10 is -- in a peer-reviewed paper said that 10 Did I read that correctly? 11 A. Yes, you read it correctly. 11 the data are consistent. Do you agree 12 Q. Yes or no, do you agree with 12 with that? 13 13 A. And then himself says some that statement? 14 A. It's actually a question you 14 are positive and some are negative. And already asked me and I agreed. 15 I'm asking, my definition of consistency 15 16 O. Let's look at some of the 16 means that they say the same thing. other statements in this paper and see if Q. I didn't ask you for what --17 17 why. I said did this study author in a 18 you agree with them. 18 19 If you go over to the first 19 peer-reviewed journal call the data page, Doctor, right-hand column. consistent, yes or no? 20 20 21 A. Yes. Yes. As to the issue of 21 2.2 2.2 consistency, it indicates, "The Q. Thank you. You didn't 23 case-control studies to date are 23 present that in your expert report that 24 consistent. Given the small effect size 24 there are peer-reviewed published authors Page 183 Page 185 1 it is not surprising that some are 1 who say the data are consistent, did you? 2 positive, i.e., show a consistent" --2 MS. CURRY: Object to the 3 "show a significant increase in risk and 3 form. 4 some are negative, i.e., show a 4 THE WITNESS: I would like 5 nonconsistent increased risk." 5 to say that this is a -- this --6 there's a difference between a MS. CURRY: You keep saying 6 7 7 paper and a news -- a story in a consistent, but the word is 8 newspaper that a reporter wrote 8 significant. 9 9 MS. GARBER: Significant. and an op Ed. 10 BY MS. GARBER: 10 This is the medical version O. Let me start again. 11 of an op Ed. I'm not going to be 11 12 "The case-control studies to 12 citing op Eds. I'm going to be citing the literature that's based 13 date are consistent. Given the small 13 14 effect size it is not surprising that 14 on. some are positive, i.e., show a 15 15 And -- and you find the difficulty with what Dr. Narod is significant increased risk and some are 16 16 17 negative, i.e., show a nonsignificant 17 saying here in his own statement. increase in risk or no risk difference." 18 It's contradictory. He could --18 19 it would have made more sense if 19 Did I read that correctly? 20 A. Yes. 2.0 he said I can explain away the 21 Q. Do you disagree with that? 21 inconsistency. Because the effect A. It's interesting. He says 22 22 size is low you can expect to see the case-control studies are consistent, 23 23 inconsistent data. But you can't 24 and then goes on to describe 24 say it's consistent, some are

PageID: 193770 Kevin Holcomb, M.D.

	Page 186		Page 188
1	positive, some are negative.	1	case-control data are unreliable because
2	BY MS. GARBER:	2	they are inconsistent based on some
3	Q. Doctor, let's let's turn	3	studies lack statistical significance?
4	to Table 1 of your expert report. And	4	MS. CURRY: Object to the
5	I'll mark that as Exhibit 9.	5	form.
6	(Document marked for	6	BY MS. GARBER:
7	identification as Exhibit	7	Q. Is that your opinion?
8	Holcomb-9.)	8	A. I'm no. Please repeat
9	BY MS. GARBÉR:	9	that again.
10	Q. And this appears in your	10	Q. Sure.
11	expert report, correct?	11	Is it your opinion that the
12	A. Correct.	12	case-control data are unreliable because
13	Q. And it is separated by	13	they are inconsistent based on some
14	I I've produced a color copy, right?	14	studies lack statistical significance?
15	A. Yes.	15	A. No. It's my opinion that
16	Q. Yeah. And it is there	16	it's not reliable because those studies
17	appears to be shaded studies that appear	17	that lack statistical significance are
18	to be in a in a blue color; is that	18	actually showing no increased risk, no
19	right?	19	no we we use statistical
20	A. Correct.	20	significance to say that that increased
21	Q. And then those that are not	21	risk was more than just by chance. So
22	shaded, right?	22	the lack of statistical significance is
23	A. That's correct.	23	what leads to the inconsistency.
24	Q. And then you have shaded	24	Q. Okay. So you believe that
	Page 187		Page 189
1	the some of the studies in blue and	1	the case-control studies are inconsistent
2	why are those studies shaded in blue?	2	because some of the studies don't show
3	A. They are shaded in blue,		
		3	statistical significance because the
4	because they have 95 95 percent	4	
5	because they have 95 95 percent confidence intervals that cross one. And	4 5	statistical significance because the confidence interval crosses one; is that fair?
5 6	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant	4 5 6	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and
5 6 7	because they have 95 95 percent confidence intervals that cross one. And	4 5 6 7	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a
5 6 7 8	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease.	4 5 6 7 8	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before
5 6 7 8 9	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table?	4 5 6 7 8 9	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what
5 6 7 8 9 10	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did.	4 5 6 7 8 9	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say
5 6 7 8 9 10 11	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer?	4 5 6 7 8 9 10	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant
5 6 7 8 9 10 11 12	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes.	4 5 6 7 8 9 10 11 12	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider
5 6 7 8 9 10 11 12	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data	4 5 6 7 8 9 10 11 12 13	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and
5 6 7 8 9 10 11 12 13	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded	4 5 6 7 8 9 10 11 12 13 14	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis.
5 6 7 8 9 10 11 12 13 14 15	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it?	4 5 6 7 8 9 10 11 12 13 14 15	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level,
5 6 7 8 9 10 11 12 13 14 15	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes.	4 5 6 7 8 9 10 11 12 13 14 15	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't
5 6 7 8 9 10 11 12 13 14 15 16 17	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at	4 5 6 7 8 9 10 11 12 13 14 15 16 17	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's
5 6 7 8 9 10 11 12 13 14 15 16 17	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at Page 10, you indicate that the with	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's a there's a significant risk of
5 6 7 8 9 10 11 12 13 14 15 16 17 18	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at Page 10, you indicate that the with regard to the case-control studies, the	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's a there's a significant risk of ovarian cancer associated with talc.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at Page 10, you indicate that the with regard to the case-control studies, the risk estimates range between 1.2 and 1.6,	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's a there's a significant risk of ovarian cancer associated with talc. So everything that's shaded
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at Page 10, you indicate that the with regard to the case-control studies, the risk estimates range between 1.2 and 1.6, suggesting a 20 to 60 percent increased risk; is that right?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's a there's a significant risk of ovarian cancer associated with talc. So everything that's shaded in blue, those things are negative studies.
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	because they have 95 95 percent confidence intervals that cross one. And that is not a statistically significant finding whether it's showing an increase or a decrease. Q. Did you create this table? A. Yes, I did. Q. On your computer? A. Yes. Q. And you put all the data into this table and and color-coded it? A. Yes. Q. In your expert report at Page 10, you indicate that the with regard to the case-control studies, the risk estimates range between 1.2 and 1.6, suggesting a 20 to 60 percent increased risk; is that right?	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	statistical significance because the confidence interval crosses one; is that fair? A. In the materials and methods, like you asked me to have a methods section, they will say before they look at the data, and this is what you do, so you're not biased, you say we're going to consider this significant at this level. We're going to consider this a positive study at this level, and then you go and you do your analysis. And when it doesn't reach that level, whether it's above or below, you don't come out of that study saying there's a there's a significant risk of ovarian cancer associated with talc. So everything that's shaded in blue, those things are negative studies.

PageID: 193771 Kevin Holcomb, M.D.

	Page 190		Page 192
1	A. I felt the need to clarify	1	
2	why I think this is inconsistent. It's	2	because they're inconsistent with those that do show statistical significance?
3	not just it's because yes, they	3	MS. CURRY: Object to the
4		4	form.
5	don't they they	5	
	Q. Doctor, excuse me.	l	THE WITNESS: Because they
6	A. Yes.	6	are inconsistent with no.
7	Q. I'm going to interrupt you	7	BY MS. GARBER:
8	there, because	8	Q. Okay. Doctor, if we look at
9	MS. SHARKO: You can't do	9	Table 1, with the exception of, I think,
10	that.	10	two studies, every one of those relative
11	BY MS. GARBER:	11	risks are all to the right of one, are
12	Q. I you you understood	12	they not?
13	my question, yet you felt the need to	13	A. Yes.
14	clarify.	14	Q. And you have odds ratio,
15	That isn't what I've asked	15	relative risk. Which is it for the
16	you to do. I've asked you a very simple	16	case-control studies?
17	question: What's the nature of this	17	MS. CURRY: Object to the
18	Table 1, and then you launched into what	18	form.
19	the study authors do.	19	BY MS. GARBER:
20	A. I I think I might be	20	Q. Which would be proper?
21	mistaken about the purpose of this	21	A. An odds ratio.
22	MS. CURRY: Ms. Garber	22	Q. Okay. And so
23	hold on. Can I just state an	23	A. I'm sorry. Hold on. I'm
24	objection on the record, please?	24	sorry. One second. I'm sorry. It's the
	Dago 101		
	Page 191		Page 193
1	THE WITNESS: Okay.	1	other way around. Case-control would be
1 2		1 2	
	THE WITNESS: Okay.		other way around. Case-control would be
2	THE WITNESS: Okay. MS. SHARKO: The question,	2	other way around. Case-control would be relative risk.
2 3	THE WITNESS: Okay. MS. SHARKO: The question, if he can't answer it without	2 3	other way around. Case-control would be relative risk. Q. Are you sure?
2 3 4	THE WITNESS: Okay. MS. SHARKO: The question, if he can't answer it without clarifying, then he's entitled to	2 3 4	other way around. Case-control would be relative risk. Q. Are you sure? A. Yeah.
2 3 4 5	THE WITNESS: Okay. MS. SHARKO: The question, if he can't answer it without clarifying, then he's entitled to clarify the question.	2 3 4 5	other way around. Case-control would be relative risk. Q. Are you sure? A. Yeah. Q. And all of those studies are
2 3 4 5 6	THE WITNESS: Okay. MS. SHARKO: The question, if he can't answer it without clarifying, then he's entitled to clarify the question. And the question was broader	2 3 4 5 6	other way around. Case-control would be relative risk. Q. Are you sure? A. Yeah. Q. And all of those studies are to the right of one except two, right?
2 3 4 5 6 7	THE WITNESS: Okay. MS. SHARKO: The question, if he can't answer it without clarifying, then he's entitled to clarify the question. And the question was broader than what you just stated. It	2 3 4 5 6 7	other way around. Case-control would be relative risk. Q. Are you sure? A. Yeah. Q. And all of those studies are to the right of one except two, right? A. Right.
2 3 4 5 6 7 8	THE WITNESS: Okay. MS. SHARKO: The question, if he can't answer it without clarifying, then he's entitled to clarify the question. And the question was broader than what you just stated. It was, because it asked specifically	2 3 4 5 6 7 8	other way around. Case-control would be relative risk. Q. Are you sure? A. Yeah. Q. And all of those studies are to the right of one except two, right? A. Right. Q. And so all of those are
2 3 4 5 6 7 8 9 10	THE WITNESS: Okay. MS. SHARKO: The question, if he can't answer it without clarifying, then he's entitled to clarify the question. And the question was broader than what you just stated. It was, because it asked specifically whether or not the case-control	2 3 4 5 6 7 8	other way around. Case-control would be relative risk. Q. Are you sure? A. Yeah. Q. And all of those studies are to the right of one except two, right? A. Right. Q. And so all of those are positive because they're to the right of
2 3 4 5 6 7 8 9	THE WITNESS: Okay. MS. SHARKO: The question, if he can't answer it without clarifying, then he's entitled to clarify the question. And the question was broader than what you just stated. It was, because it asked specifically whether or not the case-control studies are inconsistent because	2 3 4 5 6 7 8 9	other way around. Case-control would be relative risk. Q. Are you sure? A. Yeah. Q. And all of those studies are to the right of one except two, right? A. Right. Q. And so all of those are positive because they're to the right of one, correct?
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2 3 4 5 6 7 8 9 10 11 12 13 14	THE WITNESS: Okay. MS. SHARKO: The question, if he can't answer it without clarifying, then he's entitled to clarify the question. And the question was broader than what you just stated. It was, because it asked specifically whether or not the case-control studies are inconsistent because it doesn't show statistical significance.	2 3 4 5 6 7 8 9 10 11 12	other way around. Case-control would be relative risk. Q. Are you sure? A. Yeah. Q. And all of those studies are to the right of one except two, right? A. Right. Q. And so all of those are positive because they're to the right of one, correct? A. No, that's MS. CURRY: Object to the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE WITNESS: Okay. MS. SHARKO: The question, if he can't answer it without clarifying, then he's entitled to clarify the question. And the question was broader than what you just stated. It was, because it asked specifically whether or not the case-control studies are inconsistent because it doesn't show statistical significance. BY MS. GARBER: Q. Doctor, is it your opinion that the studies that do not show statistical significance are unreliable and attributable to chance? A. Yes. Q. And is it your opinion that the case-control studies that do not show strike that.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	other way around. Case-control would be relative risk. Q. Are you sure? A. Yeah. Q. And all of those studies are to the right of one except two, right? A. Right. Q. And so all of those are positive because they're to the right of one, correct? A. No, that's MS. CURRY: Object to the form. THE WITNESS: That's a misunderstanding of statistics. They are not positive because they're to the right of one. It's defined in the study what they were going to consider a positive study. It had to be above one and have a 95 percent chance that the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: Okay. MS. SHARKO: The question, if he can't answer it without clarifying, then he's entitled to clarify the question. And the question was broader than what you just stated. It was, because it asked specifically whether or not the case-control studies are inconsistent because it doesn't show statistical significance. BY MS. GARBER: Q. Doctor, is it your opinion that the studies that do not show statistical significance are unreliable and attributable to chance? A. Yes. Q. And is it your opinion that the case-control studies that do not show strike that. Is it your opinion that the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	other way around. Case-control would be relative risk. Q. Are you sure? A. Yeah. Q. And all of those studies are to the right of one except two, right? A. Right. Q. And so all of those are positive because they're to the right of one, correct? A. No, that's MS. CURRY: Object to the form. THE WITNESS: That's a misunderstanding of statistics. They are not positive because they're to the right of one. It's defined in the study what they were going to consider a positive study. It had to be above one and have a 95 percent chance that the

PageID: 193772 Kevin Holcomb, M.D.

	Page 194		Page 196
1	one, you're saying the author	1	
2	themselves, by doing the	1 2	off the top of your head? A. No. It's such you're
		1	
3	statistics, by putting that in the	3	asking something that is so widely
4	materials and methods, they're	4	accepted, that it would be like finding
5	saying I don't consider this a	5	an authority that says water is H2O. I
6	positive study unless I achieve a	6	mean, it's I could find a nice review
7	positive direction above one and	7	article that explains, and this all comes
8	the 95 percent confidence interval	8	down to the quality of the study, and in
9	does not cross one, otherwise why	9	the study design how much risk is there
10	bother doing that?	10	for a spurious value, for a confounder or
11	BY MS. GARBER:	11	for a recall bias to play a role.
12	Q. Can you give me any article,	12	And that's why you have I
13	treatise, authority, that supports that	13	think of 95 confidence intervals as your
14	claim that for a study to be positive, it	14	bumpers, your safety bumpers that keep
15	needs to be greater than one and reach	15	you from making a mistake.
16	statistical significance?	16	Q. Is the point estimate the
17	A. Any treatise?	17	best estimate of risk?
18	Q. Any any authority to	18	MS. CURRY: Object to the
19	support that claim?	19	form.
20	A. Again, I think for each	20	THE WITNESS: The point
21	individual paper, I could go through the	21	estimate has to be taken into
22	materials and methods, and the author who	22	account with the 95 percent
23	wrote that paper will describe, before	23	confidence intervals.
24	they started collecting data, their	24	BY MS. GARBER:
	they started concerning data, then		
	Page 195		Page 197
1	methodology. And what they were going to	1	Q. That wasn't my question. Is
2	consider significant.	2	the point estimate the best estimate of
3	Q. Do you understand that to be	3	risk?
4	authority?	4	MS. CURRY: Object to the
5	MS. CURRY: Object to the	5	form.
6	form.	6	THE WITNESS: I don't
7	THE WITNESS: I'm saying for	7	understand your question. As
8	each individual person that's	8	opposed to what?
9	doing the study, that is their	9	BY MS. GARBER:
10	definition of what they considered	10	Q. In looking at the data, in
11	a positive study.	11	looking
12	BY MS. GARBER:	12	A. As opposed to what though?
13	Q. I understand that. I'm	13	All you get is the point estimate and the
14	asking you for an authoritative paper	14	95 percent confidence interval. So
15	that indicates your definition of a	15	you're saying it's better than what?
16	positive study meaning greater than one	16	Q. You've never seen that
		17	statement that the point estimate is the
	inal reached statistical stomuticance	- '	statement that the point estimate is the
17	that reached statistical significance	1 Ω	hest estimate of risk?
17 18	constitutes a positive study. Can you	18	best estimate of risk?
17 18 19	constitutes a positive study. Can you please give me an authority for that	19	A. Have you heard the term
17 18 19 20	constitutes a positive study. Can you please give me an authority for that statement?	19 20	A. Have you heard the term "compared to what"?
17 18 19 20 21	constitutes a positive study. Can you please give me an authority for that statement? A. I'm sure if you gave me the	19 20 21	A. Have you heard the term "compared to what"? Q. Okay. Doctor, what is your
17 18 19 20 21 22	constitutes a positive study. Can you please give me an authority for that statement? A. I'm sure if you gave me the time I could find it. But I don't have	19 20 21 22	A. Have you heard the term "compared to what"? Q. Okay. Doctor, what is your definition of a negative study?
17 18 19 20 21	constitutes a positive study. Can you please give me an authority for that statement? A. I'm sure if you gave me the	19 20 21	A. Have you heard the term "compared to what"? Q. Okay. Doctor, what is your

PageID: 193773 Kevin Holcomb, M.D.

		<u> </u>	
	Page 198		Page 200
1	definition of a positive study. Anything	1	Holcomb-10.)
2	that doesn't reach your definition of a	2	BY MS. GARBER:
3	positive study there's no in between.	3	Q. I'm going to mark as
4	It's either positive or negative.	4	Exhibit 10 a paper that was just
5	Q. So your definition of	5	published. Doctor, in just looking at
6	negative is a study which can be to the	6	this paper this paper was just
7	right of one or greater than one, but	7	published on March 21st, here at the
8	doesn't reach statistical significance?	8	bottom. March 21, 2019, in Nature.
9	That's how	9	Do you do you know that
10	A. Say this once again.	10	journal?
11	Q. That's how you define a	11	A. Yes.
12	negative study?	12	Q. And what's your opinion of
13	MS. CURRY: Object to the	13	that journal?
14	form.	14	A. Nature?
15	THE WITNESS: I do. And the	15	Q. Mm-hmm.
16	reason being is because when you	16	A. It's a highly respected
17	think about the problems with	17	journal.
18	case-control studies, and it's	18	· ·
19	every all the experts on both	19	Q. Thank you.
20	sides talk about this risk of	20	And do you see that the title of this article is "Retire"
		1	
21	recall bias. Recall bias never	21	Statistical Significance"?
22	sends your numbers below zero.	22	A. Yes. And this is a comment
23	BY MS. GARBER:	23	in the highly respected journal. Again,
24	Q. Doctor, did I ask you about	24	this is an op Ed piece, not this is
	Page 199		Page 201
1	recall bias?	1	not a study.
2	A. And I'm explaining why I	2	Q. Doctor, do you see who the
3	have this opinion.	3	study authors are?
4	Q. I didn't ask you why you	4	A. Yes.
5	have your opinion.	5	Q. And do you see that Sander
6	A. Then I'll withdraw my	6	Greenland is one of the study authors?
7	statement.	7	A. Yes.
8	Q. Your lawyer will be able to	8	Q. And do you see that it goes
9	ask you questions. Thank you, Doctor.	9	on to say, "And more than 800 signatories
10	Doctor, have you cited any	10	call for an end to the hyped claim and
11	authority to support your claims that	11	dismissal of possibly crucial effects."
12	studies that don't show statistical	12	Do you see that? That's
13	significance are attributable to chance	13	the
$\frac{13}{14}$	and bias?	14	
			A. Yes, I do see that.
15 16	A. No. That's not that's	15	Q. All right. And let's look
16	not my claim, first of all.	16	at this paper, if we could, together.
17	Q. Okay. Doctor, do you know	17	It begins by stating, "When
18	who Sander Greenland is?	18	was the last time you heard a seminar
19	A. No.	19	speaker claim that there was no
20	Q. Do you know who Kenneth	20	difference between two groups because the
21	Rothman is?	21	difference was statistically
22	A. No.	22	nonsignificant?"
23	(Document marked for	23	Did I read that correctly?
24	identification as Exhibit	24	A. You read that correctly.
41			·

Kevin Holcomb, M.D.

Page 204 Page 202 Q. So this is a paper, just 1 1 It is equally absurd to claim that these 2 from the introduction at least, looking 2 results were in contrast with earlier 3 like it's going to talk about statistical 3 results showing an identical observed 4 versus non-statistical data using the 4 result, yet these common practices show 5 95 percent confidence interval, right? 5 how reliance on thresholds of statistical 6 significance can" -- "can mislead us (See 6 A. Right. 7 7 MS. CURRY: Object to the 'Beware false conclusions')." 8 form. 8 Did I read that correctly? 9 BY MS. GARBER: 9 A. You did. 10 10 Q. Is that fair? Q. And -- and that's, in fact, 11 And then if you go to the 11 what you've done in Table 1, haven't you? section which indicates the pervasive 12 12 MS. CURRY: Object to the problem. It says, "Let's be clear about 13 13 form. what must stop. We should never conclude 14 14 BY MS. GARBER: 15 that there is no difference or no 15 Q. You've tried to separate 16 association just because a P-value is 16 them by statistically significant and larger than a threshold such as 2 17 nonstatistically significant, correct? 17 A. As -- as much -- I did 18 point" -- "such as 0.05." 18 19 And then we turn to the next 19 divide them by significance and page, "or equivocally because a 20 20 nonsignificance. 21 confidence interval includes zero." 21 Based on these doctors --2.2 22 MS. CURRY: Take the time to I'm not familiar with them. But they are 23 look it through. 23 clearly worried about missing significant 24 BY MS. GARBER: 24 effects that are small, and I'm not Page 203 Page 205 1 Q. "Neither should we include 1 saying I'm not interested in small effect 2 that two studies conflict because one has 2 sizes. But I'm saying that because of 3 the risk of -- of confounders and other a statistically significant result and 3 4 the other did not. These errors waste 4 biases, that you need to find -- if 5 5 research efforts and misinform policy you're going to have a small effect size, 6 6 you're going to need to find consistency decisions." 7 7 along -- the -- the onus is going to be Did I read that correctly, 8 8 even stronger to prove that you're not Doctor? 9 9 A. Yes, you read that making a spurious conclusion. Because I would imagine, being Nature contributors, 10 10 correctly. these are likely basic science 11 Q. That's the opinion of these 11 12 researchers. And I can show you example 12 authors and 800 signatories, correct? 13 MS. CURRY: Object to the 13 after example in clinical medicine where nonsignificant findings led to wrong 14 14 form. 15 results. Whether -- and I give some 15 THE WITNESS: I haven't read the full paper, but that's what 16 examples in my report with, you know, 16 17 the title says, yes. 17 what causes cervix cancer, the effect of 18 BY MS. GARBER: 18 estrogen replacement therapy. These things that we did not use the safety 19 19 Q. All right. Let's go on to bumpers of 95 percent confidence 20 read further down where it indicates, "It 20 21 is ludicrous to conclude that the 21 intervals. It just -- it doesn't mean 22 statistically nonsignificant results 22 that the studies should stop. It just showed no association when the interval means -- and that you have a definitive 23 23 24 estimate included serious risk increases. 24 answer. It means that that should raise

PageID: 193775 Kevin Holcomb, M.D.

	Page 206		Page 208
1	questions for you and that should make	1	that he is a plaintiffs' expert
2	you think that there may be something	2	here? I'm just curious.
3	else going on.	3	MS. GARBER: Let's let's
4	MS. GARBER: Objection.	4	go on.
5	Motion to strike as nonresponsive.	5	BY MS. GARBER:
6	BY MS. GARBER:	6	Q. Doctor
7	Q. Doctor, what we're talking	7	MS. O'DELL: Susan, that's
8	about here is ovarian cancer, correct?	8	totally inappropriate. Stop
9	A. Correct.	9	coaching the witness.
10	Q. We're talking about a risk	10	MS. SHARKO: I'm not. I'm
11	of a deadly disease, correct?	11	not coaching him. I'm asking you.
12	A. I treat ovarian cancer,	12	MS. O'DELL: He's not my
13	ma'am. We don't have to go through the	13	expert. I don't know what you're
14	fact it's deadly.	14	talking about.
15	Q. Right. And and so here	15	MS. SHARKO: You identified
16	there is a body of literature over	16	him as an plaintiffs' expert.
17	40 years that's looked at the topic,	17	MS. O'DELL: I did not.
18	right?	18	MS. SHARKO: Yeah, you did.
19	A. Right.	19	Look at your disclosures.
20	Q. And that body of literature	20	All right. We'll send
21	has consistent odds ratios throughout	21	we'll send you a letter on this,
22	case-control, cohort and and	22	because I'm concerned about that.
23	meta-analyses?	23	MS. GARBER: So I I would
24	A. Cohort, no	24	just like to say I would
N.			
	Page 207		Page 209
1	MS. CURRY: Object to the	1	appreciate it, Ms. Sharko, if you
2	form.	2	could stop coaching. I understand
3	THE WITNESS: I disagree	3	your need to, you know, speak up,
4	with that.	4	but Ms. Curry is completely
5	BY MS. GARBER:	5	capable of defending the doctor.
6	Q. You do?	6	And your coaching only frustrates
7	A. Yeah.	7	the process.
8	Q. Okay. The cohort studies	8	And and I will go to the
9	are showing, aside from the Gonzalez	9	Court if we need to, because it's
10	study, they are all showing numbers that	10	not fair. And you know it.
11	are to the right of one, aren't they?	11	MS. SHARKO: Right. There's
12	MS. CURRY: Object to the	12	no coaching. I asked you
13	form.	13	MS. GARBER: There is
14	BY MS. GARBER:	14	coaching, Ms. Sharko. You you
15	Q. For every use?	15	have just coached him about
16	A. For example, Gates is 1.06.	16	Dr. Greenland, so
17	Q. Mm-hmm. That's to the right	17	MS. SHARKO: You are
18	of one, isn't it?	18	interrupting me. You are
19	A. Yes, ma'am. Just right to	19	interrupting me.
	the right of one.	20	MS. GARBER: Because, you
20		21	know what we're on the record
21	Q. Okay. Let's let's carry	1	know what, we're on the record.
21 22	on with this paper.	22	So we'll have this topic off the
21 22 23	on with this paper. MS. SHARKO: Why doesn't	22 23	So we'll have this topic off the record later if we like.
21 22	on with this paper.	22	So we'll have this topic off the

PageID: 193776 Kevin Holcomb, M.D.

	Page 210		Page 212
1	to interrupt me off the record?	1	A. So I'm here to give you my
2	There's no question pending.	2	opinions
3	It's a question for the plaintiffs	3	Q. I don't
4	and we'll pursue it. We'll pursue	4	A but you're not you're
5	it off the record.	5	not really interested in my opinions
6	BY MS. GARBER:	6	Q. What I
7	Q. Doctor, could you look at	7	A because every time I try
8	the bottom of this document. And it	8	to offer it to you, you cut me off and
9	indicates: "Beware of false conclusions.	9	you want me to tell you, are you reading
10	Studies currently dubbed statistically	10	his opinions correctly.
11	significant and statistically	11	Q. No, Doctor, I'm asking for
12	nonsignificant need not be contradictory,	12	yours.
13	and as such, designations might cause	13	A. I believe you can read it.
14	genuine effects to be dismissed."	14	Q. Do you agree with that?
15	Do you see that?	15	That was my question. Do you agree with
16	A. Yes.	16	these study authors?
17	Q. The study authors are very	17	A. Can you repeat the
18	concerned about risk of disease being	18	statement?
19	dismissed because a body of literature	19	Q. Okay. Do you agree with
20	shows statistical significance and	20	these strike that.
21		21	
22	another one showing near statistical	22	These study authors are
23	significance, but experts like you,	l	concerned about dismissing genuine effects.
	dismissing that risk, they are concerned	23	
24	about that, aren't they?	24	A. Do I agree that they're
	Page 211		Page 213
1	Page 211 A. Because I'm I'm	1	Page 213 concerned?
2		1 2	
	A. Because I'm I'm	l	concerned?
2	A. Because I'm I'm concerned	2	concerned? Q. Yes.
2 3 4 5	A. Because I'm I'm concerned MR. MIZGALA: Object to the	2 3	concerned? Q. Yes. MR. MIZGALA: Object to the
2 3 4	A. Because I'm I'm concerned MR. MIZGALA: Object to the form.	2 3 4	concerned? Q. Yes. MR. MIZGALA: Object to the form.
2 3 4 5	A. Because I'm I'm concerned MR. MIZGALA: Object to the form. MS. CURRY: Object to the	2 3 4 5	concerned? Q. Yes. MR. MIZGALA: Object to the form. MS. CURRY: Object to the
2 3 4 5 6	A. Because I'm I'm concerned MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: What I'm	2 3 4 5 6	concerned? Q. Yes. MR. MIZGALA: Object to the form. MS. CURRY: Object to the form.
2 3 4 5 6 7	A. Because I'm I'm concerned MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: What I'm concerned about is if you have a	2 3 4 5 6 7	concerned? Q. Yes. MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: They're obviously concerned. They wrote
2 3 4 5 6 7 8	A. Because I'm I'm concerned MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: What I'm concerned about is if you have a group of studies that are all the	2 3 4 5 6 7 8	concerned? Q. Yes. MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: They're
2 3 4 5 6 7 8 9	A. Because I'm I'm concerned MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: What I'm concerned about is if you have a	2 3 4 5 6 7 8	concerned? Q. Yes. MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: They're obviously concerned. They wrote the paper. BY MS. GARBER:
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2 3 4 5 6 7 8 9 10 11 12 13	A. Because I'm I'm concerned MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: What I'm concerned about is if you have a group of studies that are all the same design that are subject BY MS. GARBER: Q. Doctor, I didn't ask you that. I asked you yes or no, is that the	2 3 4 5 6 7 8 9 10 11 12	concerned? Q. Yes. MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: They're obviously concerned. They wrote the paper. BY MS. GARBER: Q. Okay. That was my first question A. Right.
2 3 4 5 6 7 8 9 10 11 12 13 14	A. Because I'm I'm concerned MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: What I'm concerned about is if you have a group of studies that are all the same design that are subject BY MS. GARBER: Q. Doctor, I didn't ask you that. I asked you yes or no, is that the author's conclusions in your opinion?	2 3 4 5 6 7 8 9 10 11 12 13	concerned? Q. Yes. MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: They're obviously concerned. They wrote the paper. BY MS. GARBER: Q. Okay. That was my first question A. Right. Q you didn't answer. Now
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Because I'm I'm concerned MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: What I'm concerned about is if you have a group of studies that are all the same design that are subject BY MS. GARBER: Q. Doctor, I didn't ask you that. I asked you yes or no, is that the author's conclusions in your opinion? MR. MIZGALA: Object to the form. THE WITNESS: The author is not here speaking in front of the camera. I'm here because you asked me my opinions. And if you want me to just read their opinions, you don't need me here.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	concerned? Q. Yes. MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: They're obviously concerned. They wrote the paper. BY MS. GARBER: Q. Okay. That was my first question A. Right. Q you didn't answer. Now my second question is MS. SHARKO: Objection. MS. GARBER: Strike my second question. Let's move on. MS. SHARKO: Thank you. MS. GARBER: You know what? I just I don't think I've ever had another lawyer treat me as
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Because I'm I'm concerned MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: What I'm concerned about is if you have a group of studies that are all the same design that are subject BY MS. GARBER: Q. Doctor, I didn't ask you that. I asked you yes or no, is that the author's conclusions in your opinion? MR. MIZGALA: Object to the form. THE WITNESS: The author is not here speaking in front of the camera. I'm here because you asked me my opinions. And if you want me to just read their	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	concerned? Q. Yes. MR. MIZGALA: Object to the form. MS. CURRY: Object to the form. THE WITNESS: They're obviously concerned. They wrote the paper. BY MS. GARBER: Q. Okay. That was my first question A. Right. Q you didn't answer. Now my second question is MS. SHARKO: Objection. MS. GARBER: Strike my second question. Let's move on. MS. SHARKO: Thank you. MS. GARBER: You know what? I just I don't think I've ever

PageID: 193777 Kevin Holcomb, M.D.

1 2 3 4 5 6 7 8	it. Okay. MS. SHARKO: I have great respect for you, Ms. Garber. It's not my intention to make you feel	1 2 3	Page 216 A. I do. Q. And you're drawing
2 3 4 5 6 7 8 9	MS. SHARKO: I have great respect for you, Ms. Garber. It's not my intention to make you feel	2	
3 4 5 6 7 8 9	respect for you, Ms. Garber. It's not my intention to make you feel		Q. And you're drawing
4 5 6 7 8 9	not my intention to make you feel	1 3	4:1 1:CC:: 141 1-4-
5 6 7 8 9			categorical differences in the data
6 7 8 9		4	between statistically significant and
7 8 9	disrespected.	5	non-statistically significant, correct?
8 9	MS. GARBER: When you laugh	6	MS. CURRY: Object to the
9	and you make snide comments, it's	7	form.
	hard to see that you have great	8	THE WITNESS: Will I be able
	respect for me.	9	to explain for my reasons doing
10	MS. SHARKO: I haven't	10	so? Or are just going to see if I
11	laughed or made snide comments,	11	agree with everything that they
12	but let's move on.	12	say?
	Y MS. GARBER:	13	BY MS. GARBER:
14	Q. Okay. If we move on to the	14	Q. You know what? Your lawyer
	hiddle of the column. The authors say,	15	can ask you questions
16 "V	We agree on the call for the entire	16	A. Okay.
	oncept of statistical significance to be	17	Q that you want asked of
18 al	bandoned. We are far from alone." And	18	you
19 it	goes onto describe, 250 people signed	19	A. Okay.
20 or	n in the first 24 hours and another 800	20	Q Doctor. But this is my
21 ex	xperts.	21	opportunity to ask you questions that I
22	Do you see that?	22	want to ask you.
23	A. Yes.	23	A. Sure.
24	Q. And so it's not just these	24	Q. And finally, turning over to
1		1	
	rudy authors. It's it's other	1 2	the next page. The under the heading
3	xperts in the field, right?	3	of "Wrong Interpretations," it reads, "An
	MS. CURRY: Object to the		analysis of 791 articles across five
4 5 D	form.	4	journals found that around half
	Y MS. GARBER:	5	mistakenly assume non-significance means
6	Q. Do you understand that from	6	no effect."
	eading this or do you need to read the	7	Did I read that correctly?
	whole paper?	8	A. Yes.
9	MS. CURRY: Object to the	9	Q. And so, finally, turning
10	form.	10	over to page to the right-hand column,
11	THE WITNESS: I agree that	11	the authors conclude, "But eradicating
12 12	you read the segment correctly.	12	categorization will help to halt
	Y MS. GARBER:	13	overconfident claims, unwarranted
14	Q. Okay. And then, Doctor,	14	declarations of no difference, and absurd
	nally, under at the right-hand side	15	statements about replication failure when
	nder the heading "Quit Categorizing,"	16	the results from the original and
	ne authors write, "The trouble is human	17	replication studies are highly
	nd cognitive more than statistical.	18	compatible.
	sucketing results into statistical	19	"The misuse of statistical
	gnificance and statistical	20	significance has done much harm to the
	on-significance makes people think that	21	science community and those who rely on
	ne items assigned in the way" "in	22	scientific evidence. P-values, intervals
23 th	nat way are categorically different."	23	and other statistical measures all have
24	Do you see that?	24	their place, but it's time for

PageID: 193778
Kevin Holcomb, M.D.

	Page 218		Page 220
1	statistical significance to go."	1	sorry. They want to get rid of
2	And I assume that you	2	statistical significance altogether.
3	disagree with these 800-some authors?	3	Q. You read Health Canada?
4	MS. CURRY: Object to the	4	A. Yes.
5	form.	5	Q. Let's look at what Health
6	THE WITNESS: If you say	6	Canada said about the consistency of the
7	P-value has its place, what is its	7	study data. Okay?
8	place if not to determine	8	A. Are you going to provide
9	significance? That's all a	9	something?
10	P-values is. So I would want to	10	Q. I'm going to mark the Health
11	know from the authors, if P-values	11	Canada draft screening assessment dated
12	have their place and it's not in	12	December 2010 as Exhibit 11.
13	determining significance, what	13	A. Thank you.
14	exactly is the place for a	14	(Document marked for
15	P-value? It's only used for one	15	identification as Exhibit
16	thing, determining significance.	16	Holcomb-11.)
17	BY MS. GARBER:	17	BY MS. GARBER:
18	Q. What was my question,	18	Q. There, Doctor, the study
19	Doctor?	19	authors indicated that, "The
20	A. I'm sorry.	20	meta-analyses of the available human
21	Q. What was my question?	21	studies in the peer-reviewed literature
22	A. I don't remember.	22	indicate a consistent and statistically
23	Q. Okay. My question was, I	23	significant positive association between
24	assume you disagree with those authors;	24	perineal exposure to talc and ovarian
2.1	assume you disagree with those authors,		permean exposure to tale and ovarian
	Page 219		Page 221
1	is that correct?	1	cancer."
2	A. Yes.	2	Do you agree with that, that
3	Q. So in accord with the study	3	that's what the meta-analyses show?
4	•		
_	authors of the paper we just reviewed,	4	A. Yes.
	authors of the paper we just reviewed, the case-control data as presented in	4 5	A. Yes.
5	the case-control data as presented in		A. Yes.Q. You disagree?
5	the case-control data as presented in your Table 1 should not be deemed	5	A. Yes.Q. You disagree?MS. CURRY: Object to the
5 6 7	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the	5 6 7	A. Yes.Q. You disagree?
5 6 7 8	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority	5 6	A. Yes.Q. You disagree?MS. CURRY: Object to the form.BY MS. GARBER:
5 6 7 8 9	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct?	5 6 7 8 9	 A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think
5 6 7 8 9	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the	5 6 7 8 9	 A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about
5 6 7 8 9 10 11	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form.	5 6 7 8 9	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses?
5 6 7 8 9 10 11 12	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my	5 6 7 8 9 10 11 12	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with
5 6 7 8 9 10 11 12 13	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my authority, I would say they should	5 6 7 8 9 10 11 12 13	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with that?
5 6 7 8 9 10 11 12 13 14	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my authority, I would say they should be considered different.	5 6 7 8 9 10 11 12 13 14	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with that? A. I believe they take a bunch
5 6 7 8 9 10 11 12 13 14 15	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my authority, I would say they should be considered different. BY MS. GARBER:	5 6 7 8 9 10 11 12 13 14 15	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with that? A. I believe they take a bunch of studies, put them together. Yes,
5 6 7 8 9 10 11 12 13 14 15	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my authority, I would say they should be considered different. BY MS. GARBER: Q. Under the authority of the	5 6 7 8 9 10 11 12 13 14 15	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with that? A. I believe they take a bunch of studies, put them together. Yes, that's true.
5 6 7 8 9 10 11 12 13 14 15 16 17	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my authority, I would say they should be considered different. BY MS. GARBER: Q. Under the authority of the paper that we just reviewed	5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with that? A. I believe they take a bunch of studies, put them together. Yes, that's true. Q. So you believe that they are
5 6 7 8 9 10 11 12 13 14 15 16 17 18	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my authority, I would say they should be considered different. BY MS. GARBER: Q. Under the authority of the paper that we just reviewed A. Oh, these doctors want to	5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with that? A. I believe they take a bunch of studies, put them together. Yes, that's true. Q. So you believe that they are consistent?
5 6 7 8 9 10 11 12 13 14 15 16 17 18	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my authority, I would say they should be considered different. BY MS. GARBER: Q. Under the authority of the paper that we just reviewed A. Oh, these doctors want to get rid of statistics altogether. So we	5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with that? A. I believe they take a bunch of studies, put them together. Yes, that's true. Q. So you believe that they are consistent? A. The meta-analyses?
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my authority, I would say they should be considered different. BY MS. GARBER: Q. Under the authority of the paper that we just reviewed A. Oh, these doctors want to get rid of statistics altogether. So we wouldn't even yeah, they would say	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with that? A. I believe they take a bunch of studies, put them together. Yes, that's true. Q. So you believe that they are consistent? A. The meta-analyses? Q. Yes.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my authority, I would say they should be considered different. BY MS. GARBER: Q. Under the authority of the paper that we just reviewed A. Oh, these doctors want to get rid of statistics altogether. So we wouldn't even yeah, they would say don't bother doing them.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with that? A. I believe they take a bunch of studies, put them together. Yes, that's true. Q. So you believe that they are consistent? A. The meta-analyses? Q. Yes. MS. CURRY: Object to the
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my authority, I would say they should be considered different. BY MS. GARBER: Q. Under the authority of the paper that we just reviewed A. Oh, these doctors want to get rid of statistics altogether. So we wouldn't even yeah, they would say don't bother doing them. Q. Where do you see that these	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with that? A. I believe they take a bunch of studies, put them together. Yes, that's true. Q. So you believe that they are consistent? A. The meta-analyses? Q. Yes. MS. CURRY: Object to the form.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my authority, I would say they should be considered different. BY MS. GARBER: Q. Under the authority of the paper that we just reviewed A. Oh, these doctors want to get rid of statistics altogether. So we wouldn't even yeah, they would say don't bother doing them. Q. Where do you see that these doctors want to get rid of statistics?	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with that? A. I believe they take a bunch of studies, put them together. Yes, that's true. Q. So you believe that they are consistent? A. The meta-analyses? Q. Yes. MS. CURRY: Object to the form. THE WITNESS: The
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the case-control data as presented in your Table 1 should not be deemed different or inconsistent based on the confidence interval under the authority of the paper we just reviewed, correct? MS. CURRY: Object to the form. THE WITNESS: Under my authority, I would say they should be considered different. BY MS. GARBER: Q. Under the authority of the paper that we just reviewed A. Oh, these doctors want to get rid of statistics altogether. So we wouldn't even yeah, they would say don't bother doing them. Q. Where do you see that these	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. You disagree? MS. CURRY: Object to the form. BY MS. GARBER: Q. You think A. No. They're talking about the meta-analyses? Q. Yes. Do you agree with that? A. I believe they take a bunch of studies, put them together. Yes, that's true. Q. So you believe that they are consistent? A. The meta-analyses? Q. Yes. MS. CURRY: Object to the form.

PageID: 193779 Kevin Holcomb, M.D.

	Page 222		Page 224
1	want to make sure it's okay for me	1	just get into this. I'm half into
2	to expound on this.	2	it.
3	The meta-analyses combine	3	I'll mark the Taher 2018
4	both case-control and cohort	4	meta-analyses as Exhibit 12.
5	studies and come to the conclusion	5	(Document marked for
6	that the case-control studies that	6	identification as Exhibit
7	they are including, find a	7	Holcomb-12.)
8	difference, and usually typically	8	BY MS. GARBER:
9	described as moderate a a	9	Q. And turning as to the
10	weak difference. And cohort	10	topic of consistency, turning over to
11	studies which show no difference.	11	Page 49, under the conclusion, it
12	And they combine them together.	12	reads
13	The few that have kept them	13	A. Page 49, I'm sorry.
14	separate and look separately have	14	Q "Consistent with previous
15	shown no difference in the cohort	15	evaluations, the IARC in 2010 and
16	studies they've put together and a	16	subsequent evaluations by individual
17	difference in the case-control	17	investigators, the present comprehensive
	studies.	18	evaluation of all currently available
18 19	BY MS. GARBER:	19	relevant data indicates that perineal
20		20	
	Q. Doctor, the authors here in	21	exposure to talcum powder is a possible cause of ovarian cancer in humans."
21	the Health Canada have concluded that the	22	
22	meta-analyses are consistent. Do you	l	First, did I read that
23	agree with that?	23	correctly?
24	A. Yes. That's what they are	24	A. You did read it correctly.
	Page 223		Daga 225
			Page 225
1	concluding.	1	Q. And this indicates that the
1 2	concluding. Q. Do you agree with the study	1 2	
			Q. And this indicates that the data are consistent
2	Q. Do you agree with the study authors?	2	Q. And this indicates that the
2 3 4	Q. Do you agree with the study authors? MS. CURRY: Object to the	2	Q. And this indicates that the data are consistent MS. CURRY: Object to the
2 3 4 5	Q. Do you agree with the study authors? MS. CURRY: Object to the form.	2 3 4	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER:
2 3 4 5 6	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again	2 3 4 5	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct?
2 3 4 5 6 7	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER:	2 3 4 5 6 7	 Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC,
2 3 4 5 6 7 8	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do	2 3 4 5 6 7 8	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes.
2 3 4 5 6 7 8 9	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or	2 3 4 5 6 7 8	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes. Q. Does it limit it to IARC,
2 3 4 5 6 7 8 9	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent?	2 3 4 5 6 7 8 9	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes. Q. Does it limit it to IARC, that statement?
2 3 4 5 6 7 8 9 10	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are	2 3 4 5 6 7 8 9 10 11	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes. Q. Does it limit it to IARC, that statement? A. IARC is basically using the
2 3 4 5 6 7 8 9 10 11 12	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent.	2 3 4 5 6 7 8 9 10 11 12	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes. Q. Does it limit it to IARC, that statement? A. IARC is basically using the subsequent evaluations and so consistency
2 3 4 5 6 7 8 9 10 11 12 13	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you.	2 3 4 5 6 7 8 9 10 11 12 13	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes. Q. Does it limit it to IARC, that statement? A. IARC is basically using the subsequent evaluations and so consistency would not be surprising when you're
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher	2 3 4 5 6 7 8 9 10 11 12 13 14	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes. Q. Does it limit it to IARC, that statement? A. IARC is basically using the subsequent evaluations and so consistency would not be surprising when you're rechurning the same data over and over.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper?	2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. And this indicates that the data are consistent MS. CURRY: Object to the form. BY MS. GARBER: Q correct? A. It's consistent with IARC, yes. Q. Does it limit it to IARC, that statement? A. IARC is basically using the subsequent evaluations and so consistency would not be surprising when you're rechurning the same data over and over. So when you say that the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. And this indicates that the data are consistent
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what? Q. The Taher, T-A-H-E-R.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. And this indicates that the data are consistent
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what? Q. The Taher, T-A-H-E-R. A. Taher	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And this indicates that the data are consistent
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what? Q. The Taher, T-A-H-E-R. A. Taher Q. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And this indicates that the data are consistent
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what? Q. The Taher, T-A-H-E-R. A. Taher Q. Yes. A yes. Mm-hmm.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. And this indicates that the data are consistent
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what? Q. The Taher, T-A-H-E-R. A. Taher Q. Yes. A yes. Mm-hmm. MS. CURRY: Ms. Garber,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. And this indicates that the data are consistent
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what? Q. The Taher, T-A-H-E-R. A. Taher Q. Yes. A yes. Mm-hmm. MS. CURRY: Ms. Garber, whenever it's appropriate to take	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. And this indicates that the data are consistent
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Do you agree with the study authors? MS. CURRY: Object to the form. THE WITNESS: Again BY MS. GARBER: Q. Do you think they're do you think they are consistent or inconsistent? A. No. Meta-analyses are consistent. Q. Thank you. You reviewed the Taher paper? A. The what? Q. The Taher, T-A-H-E-R. A. Taher Q. Yes. A yes. Mm-hmm. MS. CURRY: Ms. Garber,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. And this indicates that the data are consistent

Kevin Holcomb, M.D.

Page 226 Page 228 1 1 those contained within IARC's or are consistency. 2 The consistency in that 2 those new studies? 3 sense, you know, really doesn't surprise 3 A. Well, interesting, IARC came me. If you take a bunch of studies that 4 4 to the conclusion that it's a possible 5 have the same risk of bias -- and even if 5 carcinogen --Q. Doctor, what was my 6 the level of bias is the same, for 6 7 7 example, if you're doing a case-control question? 8 study in Boston, I wouldn't expect women 8 A. I'm going to answer. And 9 in Massachusetts to be more prone or less 9 this time, you asked me a question, I'm prone to recall bias than a group of 10 10 going to give you an answer. And --11 women in California. 11 Q. Are you going to give me an 12 So I wouldn't be surprised 12 answer that's --13 to see, especially since they are so 13 A. I'm going to give you a very small, similar risk. And that's why I 14 14 direct answer to the question you 15 have a problem with the commenters in 15 asked --16 Nature to say you don't need these, these 16 Q. That would be great. safe ways, because as long as they keep A. -- and if you would give me 17 17 going in the same direction, we should be a chance, you would have found out that 18 18 19 assuming it's real. 19 it would have been that case. 20 But what if all the studies 20 So IARC 2010 looks at talc. 21 have the same problem, and that problem 21 They have one prospective trial included 2.2 takes your risk estimate in the same 2.2 in that. 23 direction? And that's the problem I have 23 In the coming years, you with just getting away with intervals, 24 24 asked, are there subsequent data that was Page 227 Page 229 1 then, in any case. 1 added to it. Well, IARC comes to this 2 So yes, IARC reviewed the 2 conclusion, in the subsequent years 3 3 there's three more prospective studies individual investigator's data and came 4 to this conclusion, and they are coming 4 that are not included in IARC that come to the conclusion that there is no 5 5 to the same conclusion, largely looking 6 6 at the same data. association. 7 7 And there are a number of Taher's meta-analysis is 8 8 basically Berge's, it's basically pooled analysis, and -- and meta-analysis 9 9 Penninkilampi. There's no new data in that keeps rechurning the same old data 10 there. It's rechurning the same data. 10 that's in IARC. So to say that this is 11 11 So there's a number of 12 12 consistent with this and this is studies that have come out since IARC. I 13 consistent with this, and you're all 13 would say the balance of which have been stronger design studies that have shown looking at the same studies, to do the 14 14 same thing over and over and expect a 15 no increased risk. And I'll be curious 15 different outcome is insanity. 16 to see what IARC thinks the next time 16 17 Q. Are you done? 17 they sit down and pool all this together. 18 Q. Doctor, Endnote 3 and 5 and 18 A. Yes. 69 do not cite to IARC. Are you aware of 19 19 O. What was my question? 20 A. Did I agree with this? 20 that? 21 Q. Okay. That wasn't my 21 A. 3, 5 and 69 in IARC? 22 O. Yeah. I'll represent to you 22 auestion. they're Berge, Penninkilampi and --23 The subsequent evaluations 23 24 by individual investigators, are -- are 24 A. Right, so what are Berge and

		1	
	Page 230		Page 232
1	Penninkilampi, what are the studies in	1	fact, you'll see that Purdie and Green,
2	those?	2	same dataset. You'll see that Wu 2015
3	Q. Those are just rechurning in	3	includes Wu 2009. You'll see that Cramer
4	your opinion. Those are just	4	2016 includes Cramer 2009.
5	A. I'm saying	5	So is it surprising that
6	Q those studies are	6	2009 Cramer and 2015 Cramer looks the
7	invaluable because they are just	7	same when the half of 2016 is 2009?
8	rechurning the prior meta-analyses.	8	Q. Shall we throw out
9	Is that your opinion?	9	A. It is rechurning
10	MS. CURRY: Object to the	10	Q. Shall we throw out the
11	form.	11	meta-analysis because they are
12	THE WITNESS: I'm saying	12	rechurning?
13	that there's very little	13	A. I'm saying all no. I'm
14	difference between Taher's	14	saying that meta
15	meta-analysis and Penninkilampi's	15	MS. CURRY: Object to the
16	meta-analysis, and Berge's	16	form.
17	meta-analysis.	17	We have to do this in in
18	The overlap in those studies	18	question and answer or you're
19 20	is great. There's very that's not much difference between those.	19	going to drive the court reporter
21		20	crazy.
22	They have very similar number of studies. And so yes, it is a	21 22	THE WITNESS: I apologize.
23	rechurning of the same data.		MS. CURRY: Let her get her
24	BY MS. GARBER:	23 24	full question out, give me a second if I need to make an
24	BT W.S. GARDER.	24	second if I need to make an
	Page 231		Page 233
1		1	
1 2	Q. That doesn't provide you	1 2	objection, and then please let him finish his answer.
3	with support that those data are robust? A. If you	3	BY MS. GARBER:
4	MS. CURRY: Object to the	4	Q. Doctor, should we throw out
5	form.	5	the meta-analyses because the subsequent
6	THE WITNESS: No. If you	6	meta-analyses are just rechurning of
7	if you	7	prior meta-analyses?
8	BY MS. GARBER:	8	A. No, what I'm saying is don't
9	Q. Different authors doing	9	say Penninkilampi, Berge, and the
10	picking basically different studies	10	don't count three in the same way that
11	A. Different studies? That's	11	in my list of case-control studies, you
12	what I'm saying, they are not different	12	shouldn't consider Purdie and Green
13	studies.	13	different studies. Even though I have a
14	Q. Okay.	14	list there just to show that I was being
15	A. They're talking the same	15	comprehensive. It's the same dataset.
	studies.	16	So my point is, if you're
16	studies.		
16 17	Q. I'm talking about the body	17	look if there's a lot of overlap, you
17 18	Q. I'm talking about the body of meta-analyses.	18	shouldn't then look and say, well, this
17 18 19	Q. I'm talking about the body of meta-analyses.A. I'm telling you that	18 19	shouldn't then look and say, well, this is consistent, because what Bradford Hill
17 18 19 20	Q. I'm talking about the bodyof meta-analyses.A. I'm telling you thatPenninkilampi, and Berge, and Taher, if	18 19 20	shouldn't then look and say, well, this is consistent, because what Bradford Hill meant by consistency was different
17 18 19 20 21	Q. I'm talking about the body of meta-analyses. A. I'm telling you that Penninkilampi, and Berge, and Taher, if you look at the overlap in the studies	18 19 20 21	shouldn't then look and say, well, this is consistent, because what Bradford Hill meant by consistency was different populations in different places at
17 18 19 20 21 22	Q. I'm talking about the body of meta-analyses. A. I'm telling you that Penninkilampi, and Berge, and Taher, if you look at the overlap in the studies that they are putting together, if you	18 19 20 21 22	shouldn't then look and say, well, this is consistent, because what Bradford Hill meant by consistency was different populations in different places at different times. That's not the spirit
17 18 19 20 21 22 23	Q. I'm talking about the body of meta-analyses. A. I'm telling you that Penninkilampi, and Berge, and Taher, if you look at the overlap in the studies that they are putting together, if you look at my case-control list, and it may	18 19 20 21 22 23	shouldn't then look and say, well, this is consistent, because what Bradford Hill meant by consistency was different populations in different places at different times. That's not the spirit of taking the same patients from the same
17 18 19 20 21 22	Q. I'm talking about the body of meta-analyses. A. I'm telling you that Penninkilampi, and Berge, and Taher, if you look at the overlap in the studies that they are putting together, if you	18 19 20 21 22	shouldn't then look and say, well, this is consistent, because what Bradford Hill meant by consistency was different populations in different places at different times. That's not the spirit

PageID: 193782 Kevin Holcomb, M.D.

	Page 234		Page 236
1		1	
1	them over and over again.	1	will say that, yes, when you don't have
2 3	Q. There's not 100 percent	2	overlap you get a 50/50. You get a 50/50 significance, 50/50 non-significance.
	overlap in any of the studies, is there?	3	
4	A. Not 100 percent. But the	4	If you keep churning the
5	majority of them. The majority of Berge	5	same data over, you would be surprised to
6	is in Taher, and the majority of	6	see it drop out of significance. And in
7	Penninkilampi is in Taher.	7	fact, when you look at Berge, which is
8	You do the math and tell me	8	really the only meta-analysis I I
9	what percentage is not there. It's the	9	wouldn't say it's the only meta-analysis
10	same. It's the majority, it's the	10	that I respect.
11	same studies.	11	But one of the rules of
12	Q. In the case-control studies	12	meta-analysis is that you have to do a
13	is the majority are the majority of	13	test for heterogeneity before you just
14	those studies overlap of the prior	14	decide to throw these studies together
15	studies?	15	and it's valid to do so.
16	MS. CURRY: Object to the	16	And I look at Penninkilampi.
17	form.	17	And Penninkilampi says, well, I did a
18	THE WITNESS: I don't	18	study for heterogeneity. And I looked
19	understand what you mean.	19	at, make sure they use condoms and
20	BY MS. GARBER:	20	diaphragms and perineal dusting. And
21	Q. Well, you seem to take issue	21	that's what he's looking for
22	with that there's overlap? So	22	heterogeneity.
23	let's	23	But the biggest form of
24	A. There's some.	24	heterogeneity, the one thing that they
	Page 235		Page 237
1	Q. Let's talk about the	1	don't mention, is the first thing Berge
2	case-control studies.	2	did. What if you looked at the
3	A. Sure.	3	case-control studies and the cohort
4	Q. Do the body of case-control	4	studies? Should these things even be
5	studies provide 100 percent overlap of	5	mixed together.
6	data?	6	And Berge says, they
7	MS. CURRY: Object to the	7	shouldn't. There's too much
8	form.	8	heterogeneity. But they go ahead and do
9	THE WITNESS: No.	9	it anyway.
10	BY MS. GARBER:	10	Q. The Penninkilampi authors
11	Q. And what's the percentage of	11	looked at the issue of heterogeneity and
12	overlap in your opinion?	12	found
13	MS. CURRY: Object to the	13	A. Through case-control I'm
14	form.	14	sorry.
15	THE WITNESS: I just	15	MS. CURRY: You have to let
16	mentioned the studies on my list	16	her finish her question.
17	that were overlap.	17	THE WITNESS: I'm sorry.
18	BY MS. GARBER:	18	BY MS. GARBER:
19	Q. Okay. And it's limited to	19	Q. The Penninkilampi authors
20	those studies, correct?	20	looked at the issue of heterogeneity and
21	A. And you have irrespective	21	concluded that there was not
22	of what the doctors say about throwing	22	heterogeneity with regard to talc
23	away confidence intervals, which is not	23	exposure, true?
24	the majority of people in medicine, I	24	MS. CURRY: Object to the
			-

PageID: 193783 Kevin Holcomb, M.D.

		1	-
	Page 238		Page 240
1	form.	1	Q. Very well.
2	THE WITNESS: Looking at a	2	In the case-control studies
3	very similar group of studies as	3	that are here published in Table 1, do
4	Berge, and somehow Berge came up	4	those studies involve study participants
5	with heterogeneity and mentions	5	of different ethnicities?
6	the heterogeneity between study	6	A. Yes.
7	design, and Penninkilampi, if you	7	Q. And do those studies involve
8	look at what they looked at as far	8	case-control studies that have occurred
9	as heterogeneity, they never say	9	over decades, in other words from 1982 to
10	that they saw a lack of	10	recently?
11	heterogeneity between cohort	11	A. Yes.
12	studies and case-control studies.	12	Q. Okay. And while some of
13	And how could you not find	13	them are in the United States, some are
14	heterogeneity when you have none	14	in foreign countries?
15	of the cohort studies showing a	15	A. Majority in the United
16	significant impact?	16	States.
17	BY MS. GARBER:	17	Q. But some are in foreign
18	Q. Are you an advocate for the	18	countries?
19	defense?	19	A. A few.
20	MS. CURRY: Object to the	20	Q. Yeah. And
21	form.	21	MR. MIZGALA: Could you
22	THE WITNESS: I'm an	22	raise your voice just a little
23	advocate for the truth. But I'm	23	bit?
24	the biggest advocate for my	24	MS. GARBER: Yeah.
	and orggest an vocate for my		MB. OMBER. Tean.
	Page 239		Page 241
1	patients. But that's a whole	1	MR. MIZGALA: Thank you.
2	other story.	2	BY MS. GARBER:
3	BY MS. GARBER:	3	Q. And with regard to the
4	Q. You are an advocate for your	4	case-control cohorts and meta-analyses,
5	patients?	5	the published literature with regard to
6	A. I am.	6	tale and ovarian cancer contained
7	Q. Do you advise them that it's	7	different study designs, can we agree
8	safe to put asbestos on their genitals?	8	with that?
9	A. No, I don't.	9	A. Yes.
10	MS. CURRY: Is it a good	10	Q. And even within the
11	time good breaking point for	11	case-control studies, those involve
12	you?	12	different study designs generally?
13	MS. GARBER: Sure.	13	MS. CURRY: Object to the
14	THE VIDEOGRAPHER: Off the	14	form.
15	record, right? The time is	15	THE WITNESS: No. The
16	1:07 p.m. Off the record.	16	case-control is a study design.
17	(Lunch break.)	17	BY MS. GARBER:
18	THE VIDEOGRAPHER: We are	18	Q. Okay. I'll just strike
19	back on the record. The time is	19	that.
20	2:04 p.m.	20	All right. Is it your
21	BY MS. GARBER:	21	opinion that unless a given study is
22	Q. Good afternoon, Doctor. Did	22	statistically significant and with an
23	you have a good lunch?	23	odds ratio greater or equal to 2.0, that
24	A. Yes, I did. Thank you.	24	the findings are attributable to random

PageID: 193784 Kevin Holcomb, M.D.

	Page 242		Page 244
1	chance?	1	MS. CURRY: Object to the
2	MS. CURRY: Object to the	2	form.
3	form.	3	THE WITNESS: Which type of
4	THE WITNESS: No.	4	cancer are you referring to?
5	BY MS. GARBER:	5	BY MS. GARBER:
6	Q. That's not your opinion?	6	Q. We'll start with breast
7	A. No.	7	cancer.
8	Q. Who is Melissa Frey?	8	A. I don't know the odds ratio
9	A. She is one of my partners at	9	exactly, no.
10	Cornell. She is a GYN oncologist.	10	Q. Doctor, if I represent to
11	Q. Do you respect her as a	11	you that the odds ratio for Prempro and
12	clinician?	12	breast cancer is a 1.24, you don't have
13	MS. CURRY: Object to the	13	any reason to dispute that, do you?
14	form.	14	MS. CURRY: Object to the
15	THE WITNESS: Yes, I do.	15	form.
16	BY MS. GARBER:	16	THE WITNESS: I I don't
17	Q. Do you respect her	17	know the odds ratio.
18	professional judgment?	18	BY MS. GARBER:
19	A. Yes.	19	Q. Do you know, Doctor, or are
20	Q. You indicate in your expert	20	you aware that Prempro carries a black
21	report that use of hormone replacement	21	box warning for a risk of breast cancer
22	therapy, or can we call that HRT?	22	based on an odds ratio of 1.24?
23	A. It depends what you're	23	A. For all patients?
24	talking about. If you're talking about a	24	Q. Yes.
			Page 245
			rage 243
1	combination single I I assume we're	1	
1 2	combination single I I assume we're going to specify what you're referring	1 2	A. No, I wasn't aware of that.
1 2 3	going to specify what you're referring	2	A. No, I wasn't aware of that.Q. No for menopausal women.
2	going to specify what you're referring to.	2 3	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that?
2 3 4	going to specify what you're referring to. Q. Okay. For purposes of your	2 3 4	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No.
2	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors	2 3 4 5	 A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk
2 3 4 5	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing?	2 3 4	 A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer
2 3 4 5 6 7	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that	2 3 4 5 6 7	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4?
2 3 4 5 6	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with	2 3 4 5 6	 A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer
2 3 4 5 6 7 8	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone.	2 3 4 5 6 7 8 9	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form.
2 3 4 5 6 7 8 9	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone.	2 3 4 5 6 7 8	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in
2 3 4 5 6 7 8 9	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that	2 3 4 5 6 7 8 9	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form.
2 3 4 5 6 7 8 9 10	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that HRT is a risk factor for ovarian cancer,	2 3 4 5 6 7 8 9 10 11	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in my report I say it's between 1.2
2 3 4 5 6 7 8 9 10 11	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that HRT is a risk factor for ovarian cancer, or do you limit that to estrogen alone?	2 3 4 5 6 7 8 9 10 11 12	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in my report I say it's between 1.2 and 1.6. So I'll stick with that. BY MS. GARBER:
2 3 4 5 6 7 8 9 10 11 12 13	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that HRT is a risk factor for ovarian cancer, or do you limit that to estrogen alone? A. I would limit it to estrogen	2 3 4 5 6 7 8 9 10 11 12 13	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in my report I say it's between 1.2 and 1.6. So I'll stick with that. BY MS. GARBER: Q. Okay. And so that would be
2 3 4 5 6 7 8 9 10 11 12 13	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that HRT is a risk factor for ovarian cancer, or do you limit that to estrogen alone? A. I would limit it to estrogen alone.	2 3 4 5 6 7 8 9 10 11 12 13 14	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in my report I say it's between 1.2 and 1.6. So I'll stick with that. BY MS. GARBER: Q. Okay. And so that would be a 20 to 60 percent increased risk of
2 3 4 5 6 7 8 9 10 11 12 13 14	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that HRT is a risk factor for ovarian cancer, or do you limit that to estrogen alone? A. I would limit it to estrogen alone. Q. Okay. In caring for women	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in my report I say it's between 1.2 and 1.6. So I'll stick with that. BY MS. GARBER: Q. Okay. And so that would be
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that HRT is a risk factor for ovarian cancer, or do you limit that to estrogen alone? A. I would limit it to estrogen alone. Q. Okay. In caring for women who use HRT in connection with menopause,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in my report I say it's between 1.2 and 1.6. So I'll stick with that. BY MS. GARBER: Q. Okay. And so that would be a 20 to 60 percent increased risk of ovarian cancer associated with talcum
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that HRT is a risk factor for ovarian cancer, or do you limit that to estrogen alone? A. I would limit it to estrogen alone. Q. Okay. In caring for women who use HRT in connection with menopause, have you had the occasion to prescribe or	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in my report I say it's between 1.2 and 1.6. So I'll stick with that. BY MS. GARBER: Q. Okay. And so that would be a 20 to 60 percent increased risk of ovarian cancer associated with talcum powder products, right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that HRT is a risk factor for ovarian cancer, or do you limit that to estrogen alone? A. I would limit it to estrogen alone. Q. Okay. In caring for women who use HRT in connection with menopause, have you had the occasion to prescribe or care for a woman using HRT Prempro?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in my report I say it's between 1.2 and 1.6. So I'll stick with that. BY MS. GARBER: Q. Okay. And so that would be a 20 to 60 percent increased risk of ovarian cancer associated with talcum powder products, right? A. In the studies that show a risk increase at all, yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that HRT is a risk factor for ovarian cancer, or do you limit that to estrogen alone? A. I would limit it to estrogen alone. Q. Okay. In caring for women who use HRT in connection with menopause, have you had the occasion to prescribe or care for a woman using HRT Prempro? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in my report I say it's between 1.2 and 1.6. So I'll stick with that. BY MS. GARBER: Q. Okay. And so that would be a 20 to 60 percent increased risk of ovarian cancer associated with talcum powder products, right? A. In the studies that show a
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that HRT is a risk factor for ovarian cancer, or do you limit that to estrogen alone? A. I would limit it to estrogen alone? Q. Okay. In caring for women who use HRT in connection with menopause, have you had the occasion to prescribe or care for a woman using HRT Prempro? A. Yes. Q. Did you ever prescribe it? A. Yes, I have. Q. Are you aware that the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in my report I say it's between 1.2 and 1.6. So I'll stick with that. BY MS. GARBER: Q. Okay. And so that would be a 20 to 60 percent increased risk of ovarian cancer associated with talcum powder products, right? A. In the studies that show a risk increase at all, yes. Q. And you believe that that
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that HRT is a risk factor for ovarian cancer, or do you limit that to estrogen alone? A. I would limit it to estrogen alone. Q. Okay. In caring for women who use HRT in connection with menopause, have you had the occasion to prescribe or care for a woman using HRT Prempro? A. Yes. Q. Did you ever prescribe it? A. Yes, I have. Q. Are you aware that the what the odds ratio or the risks are	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in my report I say it's between 1.2 and 1.6. So I'll stick with that. BY MS. GARBER: Q. Okay. And so that would be a 20 to 60 percent increased risk of ovarian cancer associated with talcum powder products, right? A. In the studies that show a risk increase at all, yes. Q. And you believe that that odds ratio or relative risk is low?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	going to specify what you're referring to. Q. Okay. For purposes of your expert report with regard to risk factors and HRT, what are you referencing? A. Most of the studies that show a significant increased risk is with estrogen replacement alone. Q. Okay. And you believe that HRT is a risk factor for ovarian cancer, or do you limit that to estrogen alone? A. I would limit it to estrogen alone? Q. Okay. In caring for women who use HRT in connection with menopause, have you had the occasion to prescribe or care for a woman using HRT Prempro? A. Yes. Q. Did you ever prescribe it? A. Yes, I have. Q. Are you aware that the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. No, I wasn't aware of that. Q. No for menopausal women. Are you aware of that? A. No. Q. Do you believe that the risk associated with talc and ovarian cancer is generally 1.3 to 1.4? MS. CURRY: Object to the form. THE WITNESS: I believe in my report I say it's between 1.2 and 1.6. So I'll stick with that. BY MS. GARBER: Q. Okay. And so that would be a 20 to 60 percent increased risk of ovarian cancer associated with talcum powder products, right? A. In the studies that show a risk increase at all, yes. Q. And you believe that that odds ratio or relative risk is low? MS. CURRY: Object to the

PageID: 193785 Kevin Holcomb, M.D.

	D 046		D 040
	Page 246		Page 248
1	BY MS. GARBER:	1	prevalence is in the United States for
2	Q. And do you, therefore, feel	2	use of talcum powder products?
3	that it does not meet sufficiency of a	3	MS. CURRY: Object to the
4	magnitude of a risk to be reliable under	4	form.
5	the Bradford Hill factors?	5	THE WITNESS: The different
6	A. No	6	studies that I reviewed had
7	MS. CURRY: Object to the	7	different different prevalence
8	form.	8	of use. And I think it's somewhat
9	THE WITNESS: that's not	9	related to the ethnic group. For
10	my opinion.	10	example, the group that has
11	BY MS. GARBER:	11	probably one of the lowest rates
12	Q. Okay. Do you have any	12	of ovarian cancer is African
13	opinion as to the magnitude of the risk	13	Americans, and historically they
14	or strength of the association between	14	have one of the highest uses of
15	the talc literature and ovarian cancer?	15	talc.
16	A. Please repeat the question.	16	But for example, in Gertig
17	Q. Sure. Do you have an	17	at the at that time of that
18	opinion as to the strength of the	18	study I believe it was about
19	association or magnitude of the risk as	19	42 percent of women reported using
20	it pertains to the talc ovarian cancer	20	it with about 14 percent using it
21	literature?	21	daily.
22	MS. CURRY: Object to the	22	BY MS. GARBER:
23	form.	23	Q. You've seen literature that
24	THE WITNESS: It's generally	24	cites it as high as 50 percent in the
	Page 247		Page 249
1	referred to it's generally	1	United States, right?
2	referred to as modest. In some	2	A. Yes.
3	cases weak. And I would I	3	Q. Do you agree with the Narod
4	would agree with that.	4	author in 2016 that it's right to be
5	BY MS. GARBER:	5	concerned over carcinogenicity of talc
6	Q. You are aware of	6	even if a risk ratio is below 50 percent?
7	peer-reviewed and published studies that	7	MS. CURRY: Object to the
8	hold the opposite opinion to yours,	8	form.
9	right, that that the magnitude of	9	THE WITNESS: No. I think
10	risk magnitude of the risk is	10	that statement taken in isolation,
11	sufficient to meet with the Bradford Hill	11	I would not agree with that.
12	criteria as to that issue?	12	BY MS. GARBER:
13	A. I agree with the statement	13	Q. You agree that his opinion
14	that I don't agree with the statement	14	has been published in Gynecologic
15	that I've seen literature that described	15	Oncology, correct?
16	the association as anything but modest	16	A. I agree, yes.
17	even in the by the authors who hold a	17	Q. Do you have an opinion as to
18	different opinion.	18	when subgroup analysis for epithelial
19	Q. Do you know what IARC says	19	ovarian cancer histology type is
20	as to the magnitude of the risk in the	20	performed in the studies that serous has
21	2010 monograph?	21	the strongest association?
22	A. I'd have to review it again	22	MS. CURRY: Object to the
23	to say specifically.	23	form.
24	Q. Do you know what the	24	THE WITNESS: I do. It's

PageID: 193786 Kevin Holcomb, M.D.

	Page 250		Page 252
1	not surprising, because it's the	1	including the desirability of the
2	most predominate cell type.	2	exposure.
3	BY MS. GARBER:	3	But so I think all
4	Q. Do you agree if women tend	4	behaviors are subject to changes
5	to use talc daily, as you indicate in	5	in recall based on the specifics.
6	your report, that the use becomes	6	BY MS. GARBER:
7	habitual rather than memorable?	7	Q. Do you believe that the
8	A. Habitual rather than	8	case-control studies are unreliable for
9	memorable?	9	assessment of risk for talcum powder
10	Q. Mm-hmm.	10	exposure in ovarian cancer based on
11	MS. CURRY: Object to the	11	recall bias?
12	form.	12	MS. CURRY: Object to the
13	BY MS. GARBER:	13	form.
14	Q. Do you understand the nature	14	THE WITNESS: I think all
15	of my question?	15	case-control studies have a risk
16	A. No, I guess I have to think	16	of recall bias, not just limited
17	about that.	17	to ovarian cancer studies.
18	Q. Let me see if I can help.	18	BY MS. GARBER:
19	So if, let's say, I have grown up	19	Q. I understand they're at risk
20	brushing my teeth every single day twice	20	for that. Is it your opinion that the
21	a day with Crest toothpaste, and somebody	21	case-control studies have had recall bias
22	wants to know what I've done over my	22	at play to explain that increase in risk?
23	lifetime, I don't have to think about,	23	A. I think that's one of the
24	oh, did I use Crest every single day,	24	possible explanations, yes.
21	on, did I use crest every single day,		possione emplantations, yes
	Page 251		Page 253
1	twice a day? It's habitual because I've	1	Q. Possible, not probable?
2	done it my whole life, rather than if I	2	MS. CURRY: Object to the
3	used one product one day and another	3	form.
4	product the other day and, you know, it	4	THE WITNESS: I would argue
5	was not something that was part of my	5	probable.
6	ADLs. You understand what ADLs are, of	6	BY MS. GARBER:
7	course.	7	Q. Okay. I got you to change
8	A. I do.	8	it to a probable?
9	Q. Yeah. Activities of daily	9	A. Yes.
10	living. So if it was not part of an	10	Q. Are you aware of literature
11	activity of daily living, it might be	11	that says it's not likely at play to
12	more memorable.	12	explain the increased odds ratios or
13	Do you understand now?	13	relative risks?
14	MS. CURRY: Object to the	14	A. I have read opinions about
15	form.	15	it, but literature, no.
16	THE WITNESS: I honestly,	16	Q. Okay. Are you aware of
17	I think my understanding of this	17	authors that have studied the topic of
18	isn't that certain things are	18	talcum powder products and risk of
19	memorable and certain things are	19	ovarian cancer who have concluded that
20	habitual. It's that activities	20	recall bias is not at play?
21	can be impacted by alterations in	21	MS. CURRY: Object to the
22	your recall of those things by a	22	form.
		1 22	
23	number of factors, which I	23	THE WITNESS: Please repeat
23 24	outlined in my report, one	23	the question again.

PageID: 193787 Kevin Holcomb, M.D.

1 BY MS. GARBER: 2 Q. Sure. Have you have you read peer-reviewed published studies where the authors were studying talcum powder products and the risk of ovarian care and have concluded that recall bias was not at play as increasing the risk for ovarian cancer? 9 MS. CURRY: Object to the form. 11 THE WITNESS: No. In fact, the only time I remember a study really getting into this where they had proof was Schildkraut 2016, where than recall bias. 15 2016, where there was a pretty significant increase and people remembering being exposed to talc after 2014 compared to before 2014 and I can't think of any 2015 other explanation for that difference other than recall bias. 12 BY MS. GARBER: 20 Doctor, at Page 464 of this paper, if you can turn to that, the last paper if head column, about halfway down the paragraph, it begins "recall." 10 Do you see where I am? If you look = f. You ke. 11 Explain the you just in the where they are the paper and to take they had proof was Schildkraut 2016, where they are there were pretty significant"— 11 Paper. And I appreciate that. But you just used a term, "proof." What do you mean by that? 12 Q. Okay. Let's look at some studies. 13 Studies. 14 (Document marked for identification as Exhibit 15 (achtifica		- 054		
2 Sercem. 3 read peer-reviewed published studies 4 where the authors were studying talcum 5 powder products and the risk of ovarian 6 cancer and have concluded that recall 7 bias was not at play as increasing the 8 risk for ovarian cancer? 9 MS. CURRY: Object to the 10 form. 11 THE WITNESS: No. In fact, 12 the only time I remember a study 13 really getting into this where 14 they had proof was Schildkraut 15 2016, where there was a pretty 16 significant increase and people 17 remembering being exposed to tale 18 after 2014 compared to before 19 2014. 20 And I can't think of any 21 other explanation for that 22 difference other than recall bias. 23 BY MS. GARBER: 24 Q. Well, we'll get to that 25 said. Can you repeat my statement? 6 Q. You said, "I remember a 5 studies. 26 Q. Okay. Let's look at some 27 study really getting into this where they 28 had proof, was Schildkraut 2016, where there were pretty significant"— 29 Q. Okay. Let's look at some 21 studies. 20 G. Way. Let's look at some 21 studies. 21 G. Oway. Let's look at some 22 G. Okay. Let's look at some 23 studies. 24 Q. Well, we'll get to that 25 G. Doctor, at Page 464 of this paper, if you can turn to that, the last reall column, about halfway down the paragraph, it begins "recall." 26 A. Yeah. 27 Q. Okay. It reads, "Recall the shall say as a bas been implicated as a limitation in studies of tale and ovarian cancer. However, findings in a prospective study, the Nurses' Health Study, in which the Nurses'		Page 254		Page 256
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the variant cancer? Solidam, about halfway down the paragraph, it begins "recall." Do you see where I am? If you look — if you look here, Doctor. Do you see where I am? If you look — if you l	5	powder products and the risk of ovarian	5	paper, if you can turn to that, the last
risk for ovarian cancer? MS. CURRY: Object to the form. THE WITNESS: No. In fact, the only time I remember a study really getting into this where they had proof was Schildkraut they had proof to "evidence." Q. Well, we'll get to that they had proof was Schildkraut to the present finding for our tale use and serous invasive ovarian cancer. Page 255 1 paper. And I appreciate that. But you they diagnosis and hence free of recall bias. The that use of tale is habitual versus memorable and not likely to be subject to recall bias. The that use of tale is habitual versus memorable and not likely to be subject to recall bias. The thing they had they had the they had they had t	6	cancer and have concluded that recall	6	page of the study. And on the left-hand
9 MS. CURRY: Object to the form. 11 THE WITNESS: No. In fact, the only time I remember a study really getting into this where they had proof was Schildkraut 14 bias has also been implicated as a limitation in studies of tale and ovarian cancer. However, findings in a remembering being exposed to tale after 2014 compared to before 2014. 19 2014. 19 2014. 19 2014. 19 2014. 19 2014. 20 And I can't think of any other explanation for that difference other than recall bias. 21 difference other than recall bias. 22 difference other than recall bias. 23 BY MS. GARBER: 24 Q. Well, we'll get to that Page 255 Page 255 Page 257 1 paper. And I appreciate that. But you just used a term, "proof." What do you amean by that? 4 A. I don't know exactly what I said. Can you repeat my statement? 6 Q. You said, "I remember a study really getting into this where they had proof, was Schildkraut 2016, where there were pretty significant" 20 A. Let me change the word from 11 "proof" to "evidence." 21 Q. Okay. Let's look at some studies. 22 (Q. Okay. Let's look at some studies. 23 BY MS. GARBER: 24 (Document marked for identification as Exhibit Holcomb-13.) 25 BY MS. GARBER: 26 (Document marked for identification as Exhibit 15 is one that you reviewed, right? 27 A. Yes. 28 MS. GARBER: Sorry. I didn't I didn't make enough 23 HB WITNESS: That's true	7	bias was not at play as increasing the	7	column, about halfway down the paragraph,
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PageID: 193788 Kevin Holcomb, M.D.

	Page 258		Page 260
1	BY MS. GARBER:	1	form.
2	Q. Okay. And you disagree that	2	THE WITNESS: One, the first
3	recall bias is not at play because the	3	statement, "The recall bias is
4	use is habitual rather than memorable?	4	unlikely to be an important source
5	A. No.	5	of bias," is now referring to an
6	Q. You don't agree with that?	6	opinion of Narod. Narod's 2016, I
7	A. If I can explain my	7	told you was that not that
8	reasoning, or should I leave this at yes	8	wasn't based on data. So there's
9	or no?	9	an echo chamber thing.
10	Q. Just I don't need to know	10	And then the positive
11	why.	11	association is strongest for
12	A. You don't need to know why.	12	serous histologic type, if you
13	Q. No, I want to ask you a few	13	have a higher prevalence of a
14		14	
	more questions and then I'll circle back		type, you would expect recall bias
15	to that	15	to be more commonly seen with
16	A. Sure.	16	that, because when you have rarer,
17	Q because there are a few	17 18	smaller numbers, you may not reach
18	other papers that I want to get to before		an association high enough to show
19	we understand that.	19	the increased risk there.
20	Doctor, if you can go back	20	So it's not surprising to me
21	to the Health Canada, which we marked as	21	if there was going to be a
22	Exhibit 11. And if you could turn to	22	consistent cell type that you saw
23	Page 28. Under do you see where I am?	23	this increased risk with, it would
24	Under the 6.4, third paragraph down.	24	be with serous, because it is the
	Page 259		Page 261
1	Do you see where I am? It	1	predominate cell type.
2	says, "In studies?"	2	BY MS. GARBER:
3	A. 28. Yes. Yes. Okay.	3	Q. You disagree with the study
4	Q. It says, "In studies where	4	authors of Health Canada wherein they are
5	the exposure is simple, e.g., never	5	stating at Page 28, that recall bias is
6	versus ever use, recall bias is unlikely	6	not likely at play
7	to be an important source of bias." And	7	A. They are yeah, I'm sorry.
8	then it cites to Narod 2016.	8	Q not likely at play for
9	"The positive association is	9	the increased risk amongst the studies,
10	strongest for serous histologic type,"	10	correct?
11	and then it cites to Berge 2018 and Taher	11	A. I do because if they would
12	2018. "Findings that the association may	12	cite a study where they can show it
	vary by histologic type detracts from the	13	
1 2	vary by histologic type detracts from the	1 72	wasn't at play. See, I can cite a study
13		1 1 /1	xyhoro I holioxio it xyoc et mlexi xyhon I
14	hypothesis of report bias as this type of	14	where I believe it was at play when I
14 15	hypothesis of report bias as this type of bias would likely operate for all	15	cite Schildkraut.
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PageID: 193789 Kevin Holcomb, M.D.

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bias using the metric I just 21 studies and answering these described. 22 questionnaires, how are they going BY MS. GARBER: 23 to find out about talc. It's most	8 9 10 11 12 13 14 15 16 17	this habitual practice, all of the sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data where I think I can't think of	7 8 9 10 11 12 13 14 15 16 17	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other I'm I'm going to assume that
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23 BY MS. GARBER: 23 to find out about talc. It's most	8 9 10 11 12 13 14 15 16 17 18 19 20	this habitual practice, all of the sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data where I think I can't think of another plausible explanation for what's at play other than recall	7 8 9 10 11 12 13 14 15 16 17 18 19 20	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other I'm I'm going to assume that the majority of people out there who are going to be on these
	8 9 10 11 12 13 14 15 16 17 18 19 20 21	this habitual practice, all of the sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data where I think I can't think of another plausible explanation for what's at play other than recall bias using the metric I just	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other I'm I'm going to assume that the majority of people out there who are going to be on these studies and answering these
2 THE OF WINDING IN SUBJECT THE TREET SUBJECT THE THEORY AND	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	this habitual practice, all of the sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data where I think I can't think of another plausible explanation for what's at play other than recall bias using the metric I just described.	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other I'm I'm going to assume that the majority of people out there who are going to be on these studies and answering these questionnaires, how are they going
James of the same amough with	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	this habitual practice, all of the sudden goes up, after it's widely known, I take that as a fair metric of recall bias. And I've tried to explain in my mind what other thing could get played to explain that finding, and I can't. So with all due respect to Dr. Narod's opinion, which is not citing a paper, I have seen data where I think I can't think of another plausible explanation for what's at play other than recall bias using the metric I just described. BY MS. GARBER:	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	form. THE WITNESS: Well, I don't think it was as widely known before 2014 of large payments and lawsuits because of talc being associated with with ovarian cancer. Because it's my assumption that most lay people don't know of the association because they've been reading Cramer studies, or Merritt or any of these other I'm I'm going to assume that the majority of people out there who are going to be on these studies and answering these questionnaires, how are they going to find out about talc. It's most

PageID: 193790 Kevin Holcomb, M.D.

	Page 266		Page 268
1	lay media.	1	describing.
2	The lay media pipes up more	2	I believe it was at play in
3	when there is product liability	3	Schildkraut. And I don't believe
4	associated with it.	4	there is anything special about
5	BY MS. GARBER:	5	Schildkraut's study design that
6	Q. When	6	would make it at play in that
7	A. And so	7	study and not another one.
8	Q. When was that first time	8	BY MS. GARBER:
9	that there was lay media coverage of a	9	Q. Okay. Your opinion that
10	talc verdict or litigation?	10	there's recall bias at play in the
11	A. I don't think it's I	11	case-control studies is based on
12	can't give you the exact date where it	12	Schildkraut's study?
13	starts. I think you'd have to look, and	13	MS. CURRY: Object to the
14	split your studies up into an earlier	14	form.
15	period and a later period.	15	THE WITNESS: Not only.
16	But, if people who don't	16	BY MS. GARBER:
17	have ovarian cancer have the same	17	Q. What what other data do
18	recollection of tale usage before and	18	you have to support that claim?
19	after a certain point, but cases have a	19	A. A trend in the strength of
20	very different memory of using it before	20	association also increasing over time.
21	and after, I think that that's a very,	21	Q. Is that your opinion?
22	very powerful statement, and I would	22	A. Yes.
23	argue that you'd be challenged to come up	23	Q. That there is a trend of
24	with another reason why that would	24	increasing
21	with another reason why that would		mercasing
	Page 267		Page 269
1	happen, other than recall bias.	1	A. To be fair the term
2	Q. Are you aware of	1 2	
2 3	Q. Are you aware of peer-reviewed study authors that state in	1	A. To be fair the term
2 3 4	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder	2 3 4	A. To be fair the term "trend"
2 3 4 5	Q. Are you aware of peer-reviewed study authors that state in	2 3 4 5	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry.
2 3 4	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder	2 3 4	A. To be fair the term "trend" Q risk over time? A. I'm sorry.
2 3 4 5	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say	2 3 4 5	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry.
2 3 4 5 6	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard	2 3 4 5 6	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is
2 3 4 5 6 7	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form.	2 3 4 5 6 7 8 9	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test.
2 3 4 5 6 7 8	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the	2 3 4 5 6 7 8	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical
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2 3 4 5 6 7 8 9 10	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you	2 3 4 5 6 7 8 9 10 11	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase.
2 3 4 5 6 7 8 9 10 11 12 13	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good	2 3 4 5 6 7 8 9 10 11 12 13	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at
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2 3 4 5 6 7 8 9 10 11 12 13	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where	2 3 4 5 6 7 8 9 10 11 12 13	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk,
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where I believe it's at play and	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk, do
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where I believe it's at play and explaining why, I would be curious to hear the opinion of somebody	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk, do A. Let me go back. Q does it show an increase over time?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where I believe it's at play and explaining why, I would be curious to hear the opinion of somebody like Narod who says I don't believe it's at play.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk, do A. Let me go back. Q does it show an increase over time? A. Let me go back one second. Q. It's Exhibit 9. A. I'd have to take the time to
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where I believe it's at play and explaining why, I would be curious to hear the opinion of somebody like Narod who says I don't believe it's at play. And if your only justification for the statement is that I believe it's habitual	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk, do A. Let me go back. Q does it show an increase over time? A. Let me go back one second. Q. It's Exhibit 9. A. I'd have to take the time to look through all the odds ratios, but one
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Are you aware of peer-reviewed study authors that state in their papers with regard to talcum powder product use and ovarian cancer, that say reporting bias is not at play with regard to the results? MS. CURRY: Object to the form. THE WITNESS: I'm not familiar with, and you you posited that there's no good metric. So I'm not sure, other than me describing examples where I believe it's at play and explaining why, I would be curious to hear the opinion of somebody like Narod who says I don't believe it's at play. And if your only justification for the statement is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. To be fair the term "trend" Q risk over time? A. I'm sorry. Q. Sorry. A. The term "trend" is a is a statistical term. So I I can't say I've subjected this to a statistical test. But in earlier versus later studies, you do see an increase. Q. And, Doctor, if we look at your Table 1 and we look at the odds ratios or sorry, the relative risk, do A. Let me go back. Q does it show an increase over time? A. Let me go back one second. Q. It's Exhibit 9. A. I'd have to take the time to

PageID: 193791 Kevin Holcomb, M.D.

	Page 270		Page 272
1	there's more blue which are	1	case-control studies. It could have been
2	nonsignificant studies	2	a problem had there been widespread
3	Q. Well	3	publicity about the possible association
4	A in the beginning	4	between use of body powder and cancer.
5	Q. Well, Doctor	5	The IARC" shortened that "working
6	A and these these are	6	group considers that there has not been
7	in in chronological order.	7	widespread public concern about the issue
8	Q. Let's just look at the at	8	and, therefore, considers it unlikely
9	the white ones.	9	that such a bias could explain the
10	The odds ratios don't seem	10	consistent findings."
11	to be increasing over time appreciably,	11	Did I read that correctly?
12	do they?	12	A. You did. And you're talking
13	A. Not to my naked eye, no.	13	about one type of recall bias. The
14	Q. Okay.	14	authors go on to say that's not the only
15	A. Just the frequency of	15	type of recall bias that we have to
16	positive studies.	16	consider. And in fact just recall bias
17	Q. And we're going to get to	17	in cancer patients remembering exposures
18	the meta-analysis shortly. But the	18	at a higher rate cannot be ruled out.
19	meta-analyses over time. How many	19	Q. Doctor, you can't say to a
20	meta-analyses are there, by the way?	20	medical degree of probability that there
21	A. There's probably about	21	is recall bias that explain the
22	seven. Maybe more.	22	statistically significant increased risk
23	Q. And do you, off the top of	23	in the case-control studies, can you?
24	your head, do you have a general sense of	24	MS. CURRY: Object to the
21	your nead, do you have a general sense of		MB. CORKT. Object to the
	Page 271		Page 273
1			
_	what those odds ratios are?	1	form.
2	A. Yes. I believe they're in	1 2	THE WITNESS: No.
2 3 4	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31,	2	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do
2 3 4 5	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region.	2 3	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four
2 3 4	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper,	2 3 4 5 6	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study
2 3 4 5	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region.	2 3 4 5	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four
2 3 4 5 6 7 8	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right?	2 3 4 5 6	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not
2 3 4 5 6 7 8	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes.	2 3 4 5 6 7 8	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased
2 3 4 5 6 7 8 9	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for	2 3 4 5 6 7 8 9	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all?
2 3 4 5 6 7 8 9 10	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit	2 3 4 5 6 7 8 9 10	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No.
2 3 4 5 6 7 8 9 10 11 12	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.)	2 3 4 5 6 7 8 9 10 11	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four
2 3 4 5 6 7 8 9 10 11 12 13	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER:	2 3 4 5 6 7 8 9 10 11 12	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address
2 3 4 5 6 7 8 9 10 11 12 13 14	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER: Q. And if you turn to page	2 3 4 5 6 7 8 9 10 11 12 13	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address that study authors, peer-reviewed study
2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER: Q. And if you turn to pagewell, it's 358. It's the front page,	2 3 4 5 6 7 8 9 10 11 12 13 14	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address that study authors, peer-reviewed study authors, have indicated that the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER: Q. And if you turn to pagewell, it's 358. It's the front page, Doctor.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address that study authors, peer-reviewed study authors, have indicated that the epidemiological data is consistent?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER: Q. And if you turn to pagewell, it's 358. It's the front page, Doctor. And if you look at if you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address that study authors, peer-reviewed study authors, have indicated that the epidemiological data is consistent? A. Do I present the data in my
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER: Q. And if you turn to pagewell, it's 358. It's the front page, Doctor. And if you look at if you look at the right-hand column about	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address that study authors, peer-reviewed study authors, have indicated that the epidemiological data is consistent? A. Do I present the data in my report showing a 50/50 split and then say
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER: Q. And if you turn to pagewell, it's 358. It's the front page, Doctor. And if you look at if you look at the right-hand column about halfway down do you see where I am?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address that study authors, peer-reviewed study authors, have indicated that the epidemiological data is consistent? A. Do I present the data in my report showing a 50/50 split and then say that other people called it consistent?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER: Q. And if you turn to pagewell, it's 358. It's the front page, Doctor. And if you look at if you look at the right-hand column about halfway down do you see where I am? Where it says, "Methodological factors"?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address that study authors, peer-reviewed study authors, have indicated that the epidemiological data is consistent? A. Do I present the data in my report showing a 50/50 split and then say that other people called it consistent? No, I didn't.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER: Q. And if you turn to pagewell, it's 358. It's the front page, Doctor. And if you look at if you look at the right-hand column about halfway down do you see where I am? Where it says, "Methodological factors"? A. Yes, I do.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address that study authors, peer-reviewed study authors, have indicated that the epidemiological data is consistent? A. Do I present the data in my report showing a 50/50 split and then say that other people called it consistent? No, I didn't. Q. Let's turn to the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER: Q. And if you turn to pagewell, it's 358. It's the front page, Doctor. And if you look at if you look at the right-hand column about halfway down do you see where I am? Where it says, "Methodological factors"? A. Yes, I do. Q. And the paper reads,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address that study authors, peer-reviewed study authors, have indicated that the epidemiological data is consistent? A. Do I present the data in my report showing a 50/50 split and then say that other people called it consistent? No, I didn't. Q. Let's turn to the Schildkraut paper.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER: Q. And if you turn to pagewell, it's 358. It's the front page, Doctor. And if you look at if you look at the right-hand column about halfway down do you see where I am? Where it says, "Methodological factors"? A. Yes, I do. Q. And the paper reads, "Methodological factors such as recall	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address that study authors, peer-reviewed study authors, have indicated that the epidemiological data is consistent? A. Do I present the data in my report showing a 50/50 split and then say that other people called it consistent? No, I didn't. Q. Let's turn to the Schildkraut paper. (Document marked for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. I believe they're in the same modest range as the studies that are going into them. 1.24, 1.28, 1.31, in that general region. Q. Let's look at another paper, the Langseth paper. You reviewed that as part of your expert opinions, right? A. Yes. (Document marked for identification as Exhibit Holcomb-14.) BY MS. GARBER: Q. And if you turn to pagewell, it's 358. It's the front page, Doctor. And if you look at if you look at the right-hand column about halfway down do you see where I am? Where it says, "Methodological factors"? A. Yes, I do. Q. And the paper reads,	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: No. BY MS. GARBER: Q. In your expert report, do you address at all anywhere in the four corners of your report where study authors peer-reviewed study authors have indicated that recall bias is not likely at play to explain the increased risk? Do you address that issue at all? A. No. Q. And anywhere in the four corners of your report, do you address that study authors, peer-reviewed study authors, have indicated that the epidemiological data is consistent? A. Do I present the data in my report showing a 50/50 split and then say that other people called it consistent? No, I didn't. Q. Let's turn to the Schildkraut paper.

	Page 274		Page 276
1	Holcomb-15.)	1	once.
2	BY MS. GARBER:	2	MS. CURRY: Where are you?
3	Q. I'm going to mark it as 15.	3	MS. GARBER: Right here.
4	Doctor, in your expert report at Page 9,	4	THE WITNESS: Yes, I found
5	you indicate that, "Recall bias can lead	5	it.
6	to spurious results in case-control	6	BY MS. GARBER:
7	studies in a variety"	7	Q. "Although our findings
8	A. I'm sorry. Which page were	8	suggest that the publicity of class
9	you reading from?	9	action lawsuits may have resulted in
10	Q. Page 9. You indicate that,	10	increased reporting of body powder use,
11	"Recall bias can lead to spurious results	11	our data do not support that recall bias
12	in case-control studies in a variety	12	alone before 2014 versus" "before 2014
13	of"	13	versus 2014 or later would account for
14	A. I'm sorry. I'm still trying	14	the associations with body powder use and
15	to find out where we are. I don't	15	epithelial ovarian cancer."
16	think	16	Did I read that correctly?
17	Q. I'm just	17	A. Yes, you did.
18	A. One second.	18	Q. So you didn't cite that in
19	Q. I'm just reading.	19	your expert report, did you?
20	A. I know. I just want to read	20	A. I maybe I'm
21	along, if it's okay.	21	misunderstanding what they are saying
22	Yes, I'm ready for you.	22	here. But they're saying maybe it's not
23	Q. I'll try it again. You	23	just not that alone. They're saying that
24	indicate that, "Recall bias can lead to	24	there could be other things that cause
	Page 275		Page 277
1	spurious results in case-control studies	1	recall bias. And they're saying
2	in a variety of clinical scenarios." And	2	they're not discounting that that played
3	then you cite to the Schildkraut 2016	3	a role. They're saying there could be
4	paper, correct?	4	other things, and they are pretty much
5	A. Right.	5	saying the same thing that I read before
6	Q. All right. And	6	where they said there's other causes of
7	A. Hold on. Is that	7	recall bias other than just information
8	Schildkraut that I'm let me see. 33,	8	out in the media.
9	yes.	9	Possibly there were multiple
10	Q. What you didn't cite to is	10	things at play that caused recall bias.
11	that the is what the authors stated	11	But that statement, they're not saying
12	about the class action publicity. And so	12	there was no recall bias in the study.
13	if I can have you turn to Page 1416 of	13	They're just saying that it may be more
14	the Schildkraut paper.	14	than just than just the lawsuits.
15	And so if you go to the	15	Q. That's your interpretation
16	right-hand column, in the first paragraph	16	of what they are saying?
17	about halfway down with the sentence that	17	A. Well, it says
18	begins "although."	18	MS. CURRY: Object to the
19	Do you see where I am?	19	form.
20	A. Yes.	20	THE WITNESS: it says,
21	Q. It says, "Although our	21	"The data do not support the
22	findings"	22	recall bias alone before 2014
23	A. No. I'm sorry. Wrong	23	versus" "or later would account
24	although. They say "although" more than	24	for the associations." They
			- I

PageID: 193793 Kevin Holcomb, M.D.

 	Page 278		Page 280
1	didn't say that it didn't.	1	They then design an experiment to see if
2	They're just saying possibly	2	they could show a difference, and guess
3	there's other things.	3	what? The findings show exactly that.
4	Yes, that's my	4	That controls have the same level of
5	interpretation.	5	memory of exposure but the cases all of
6	BY MS. GARBER:	6	the sudden jump up after 2014.
7	O. You don't know what the	7	If you do an experiment
8	other things are, do you?	8	because you have a hypothesis, and your
9	A. They don't either. They're	9	experiment then proves the hypothesis,
10	saying they're not discounting recall	10	you should reasonably say, this is why I
11	bias. They're just saying there may be	11	did it. I found what I found. I have
12	multiple sources.	12	evidence of recall bias. That's the
13	Q. There was no widespread	13	whole point why they did this experiment.
14	publicity about talc and ovarian cancer	14	Q. Did the Schildkraut authors
15	in the lay media in 2014, was there?	15	•
16	MS. CURRY: Object to the	16	find a statistically significant finding between genital powder use and epithelial
17	form.	17	ovarian cancer?
18			
19	THE WITNESS: Then why did	18	A. Yes. What I found
	Schildkraut decide to make that	19	interesting about
20	analysis? They made that analysis	20	Q. Doctor, I didn't
21	specifically because of the	21	A. I won't editorialize. I
22	lawsuits.	22	won't sorry.
23	BY MS. GARBER:	23	Q. I appreciate that.
24	Q. You're making that	24	A. Sure.
	Page 279		Page 281
1	assumption, aren't you?	1	Q. At Page 8, Figure 1 of your
2	MS. CURRY: Object to the	2	expert report, if we can turn there.
3	form.	3	Are you there?
4	THE WITNESS: No. They	4	A. I am.
5	they say in the materials and	5	Q. Here you have a diagram
6	methods, why they split at 2014.	6	regarding the levels of evidence; is that
7	BY MS. GARBER:	7	right?
8	Q. Do you know	8	A. Yes.
9	A. They didn't just routinely	9	Q. I'll publish it on the Elmo.
10	pick that up.	10	This is your diagram for the levels of
11	Q. I understand that, Doctor.	11	evidence, correct?
12	A. Right.	12	A. It's not my diagram.
13	Q. But authors can make	13	Q. In fact, it's the levels of
14	mistakes, can't they?	14	evidence for the Center For
15	A. I've been pointing out a lot	15	Evidence-Based Medicine, or the CEBMA,
16	of them.	16	correct?
17		17	
	Q. Okay. You didn't point out	18	A. Management, yes.
18	this one, did you?		Q. And what is that a
19	A. Which mistake?	19	medical site or is that a business site?
2.0	Q. Well, do you know if there	20	A. I'm not sure.
20			LL Why did you nick that
21	was widespread publicity about lawsuits	21	Q. Why did you pick that
21 22	was widespread publicity about lawsuits in 2014?	22	diagram?
21	was widespread publicity about lawsuits		

Kevin Holcomb, M.D.

Page 282 Page 284 1 believe is a widely held hierarchy on the 1 this. 2 strengths of different study types based 2 This is how I was -- this is 3 on their ability to be altered by 3 how I was trained. I mean, this -- I'm 4 inaccuracies. And this was the diagram 4 looking for -- there are some things that 5 that I found that I thought showed it the 5 I learned in reviewing for the -- for 6 6 this deposition. And there are certain 7 7 beliefs that I've long held because I was Q. Did you just look to find a 8 diagram where cohorts were above 8 trained that way. I was forced -- well, 9 case-control studies, is that how you 9 not forced. I was happily taking a 10 graduate level statistics course as part 10 searched? MS. CURRY: Object -- object 11 11 of my fellowship. And I was taught this then too. And that was part of a medical 12 to the form. 12 THE WITNESS: If you search 13 13 statistics course. under levels of evidence, you will 14 14 So this is just consistent 15 never find -- well, I may not say 15 with what I already knew. 16 never. Who knows. 16 Q. Where do meta-analyses fall 17 I -- I don't think you 17 on your pyramid? 18 will -- you have to search hard to A. You know, the reason why 18 find a -- a figure that has cohort 19 19 meta-analyses aren't on these is because 20 studies above case-control meta-analysis is a somewhat controversial 20 21 studies. practice. They -- there are some 21 22 BY MS. GARBER: strengths to meta-analysis. There are 2.2 some ways that meta-analyses can help. 23 Q. Okay. So what you said is 23 24 if you search under levels of evidence, 24 But you have to really, really conduct Page 283 Page 285 1 you will never find -- I mean -- I mean I 1 them in a strict format and not break the 2 may not say never. Who knows. You have 2 rules. So you can have a meta-analysis to search hard to find a figure that has that's well -- you know, very well 3 3 4 cohorts above case-control studies. controlled, and look for heterogeneity 4 5 Is that your testimony? 5 and did all the things that you have to 6 A. I'm sorry. It's below. do, that would be a strong study. But 6 7 Sorry. The other way around. Thank you. 7 it's so fraught with the ability to make 8 Q. Thanks for that. it a poor study. So it's hard to put it 8 Did you attempt to find a 9 9 on here. Because there is no one medical website or an evidence-based 10 10 meta-analysis that's going to be medical website as to the levels of 11 11 positive. It's going to be a good study. 12 evidence? 12 Q. What -- what is your basis 13 MS. CURRY: Object to the 13 to say that -- that meta-analyses are 14 form. 14 controversial? 15 15 BY MS. GARBER: A. Let me go through. I -- I 16 thought I had actually given a citation 16 Q. Or did you find this one and for it when I said -- because I believe I 17 stop? 17 18 A. I -- I don't -- I don't 18 made that statement in here as well. 19 19 think that whether -- statistics don't You know. I didn't cite to 20 alter from one practice to the other. 20 a -- to an exact paper. 21 Weaknesses in a study design are built in 21 Q. So that's the opinion of and baked in. And so no, I didn't look 22 22 Dr. Holcomb --23 for a specific medical website, because I 23 A. No, I wish I had cited it, 24 thought it would look differently than 24 because I actually reviewed different

PageID: 193795 Kevin Holcomb, M.D.

	Page 286		Page 288
1	study designs. Not just for this. And	1	form.
2	that is, if given the the time, I	2	THE WITNESS: No. As I
3	could find a citation that makes the same	3	stated before, I would have to
4	statement. It's not just my opinion.	4	search and find you one.
5	Q. But there's not one in your	5	BY MS. GARBER:
6	report?	6	Q. Did you know that Kenneth
7	A. There's not one in my	7	Rothman is known for his work on teaching
8	report, no.	8	about epidemiologic research methodology?
9	Q. You can't think of one	9	MS. CURRY: Object to the
10	either, can you?	10	form.
11	A. No, I would have to do a	11	BY MS. GARBER:
12	search.	12	Q. Were you aware of that?
13	Q. So when you had your	13	A. Given the fact that I
14	statistics class, what was your text, do	14	I've already answered that I wasn't aware
15	you remember?	15	who he is, I don't see how I would know
16	•	16	that.
17	MS. CURRY: Object to the	17	
	form.	18	Q. Do you ever rely on
18	THE WITNESS: I don't.		meta-analyses in your practice to make
19	BY MS. GARBER:	19	clinical decisions, do you ever look at
20	Q. And I asked you this before,	20	epidemiological data and set your care
21	if you knew who Kenneth Rothman was in	21	attendant to the results or are they just
22	the context of epidemiology. And you did	22	worthwhile in your opinion?
23	not, correct?	23	MS. CURRY: Object to the
24	A. That's correct.	24	form.
	Page 287		Page 289
1	Q. So I'll represent to you	1	THE WITNESS: No, no,
2	that he is a professor of epidemiology,	2	they're worthwhile but they we
3	an author of textbooks and many published	3	don't I've never made any
4	articles regarding epidemiology. Okay?	4	clinical decisions on care based
5	I'll also show you that he	5	on one study. It's it's
6	is the study author of this widely used	6	meta-analysis will become part of
7	text with regard to epidemiology. You	7	the totality of what I'm looking
8	see that Kenneth Rothman is the first	8	at.
9	author, Sander Greenland is the second.	9	BY MS. GARBER:
10	And that goes back to that paper on	10	Q. Meta-analysis is looking at
11	statistical significance. That's the	11	a systematic review of a body of
12	author, right?	12	literature, correct?
13	You are not familiar with	13	A. Meta-analysis is taking
14	those authors or this text; is that	14	subjects that were in different places
15	correct?	15	and different times and mixing them up as
16	A. Or the fact that it's widely	16	if they were all in the same place at the
17	used, no.	17	same time under the same conditions,
18	Q. Okay. You've never read a	18	hence it's fraught with potential issues.
19	book with regard to meta-analyses and the	19	
20	utility of them strike that.	20	Q. There's utility to them, isn't there?
20 21	The state of the s	20	
	Can you name a text with regard to meta-analyses and the utility	21	MS. CURRY: Object to the
	regard to meta-analyses and the litility	1 44	form.
22		I	
	of them? MS. CURRY: Object to the	23 24	THE WITNESS: If done correctly, yes.

PageID: 193796 Kevin Holcomb, M.D.

	Page 290		Page 292
1	BY MS. GARBER:	1	the bias? I don't can't think of a
2	Q. What are what is the	2	source. I know it's not I know even
3	utility of them?	3	some of your experts don't don't
4	A. For example, if you had	4	refute that. Ellen Blair Smith says as
5	this question of do you have enough	5	much in her in her expert report. She
6	numbers in your cohort studies to	6	agrees that that's the case.
7	approximate an effect size that you see	7	Q. Does she say there's no
8	in your case-control studies, well, you	8	utility to the meta-analyses because of
9	might be able to do that in a	9	bias?
10	meta-analysis. You might be able to put	10	A. I didn't I didn't say
11	all these things together.	11	that. If you're asking me about the
12	And Berge says when we put	12	statement, I can tell you that I can find
13	everything together, we felt we had	13	support of that statement by some of the
14	99 percent chance of finding the effect	14	plaintiff experts.
15	size in the case-control size when we put	15	Q. Let's look at a paper by Ken
16	all the people together from the three	16	Rothman.
17	cohort studies that Berge put together.	17	(Document marked for
18	So that's an example where	18	identification as Exhibit
19	it might be helpful. If you think you	19	Holcomb-16.)
20	can put together studies that are biased	20	BY MS. GARBER:
21	for example, and that if you mix them	21	Q. I'm going to mark as
22	altogether the bias will be diluted,	22	Exhibit 16 a paper titled "Six Persistent
23	that's where it's not helpful.	23	Research Misconceptions" by Kenneth
24	Q. Do you have a source to cite	24	Rothman. You've not seen that paper
			1 · I
	Page 291		Page 293
1	that when you put cohort studies	1	before?
2	together, that the bias will affect the	2	A. No.
3	results of a meta-analysis?	3	Q. Doctor, if you look at the
4	MS. CURRY: Object to the	4	left-hand column, do you see here that's
5	form.	5	illuminated or highlighted?
6	THE WITNESS: I didn't	6	Do you see where I am?
7	that wasn't my statement.	7	A. Yes, I do.
8	BY MS. GARBER:	8	Q. It reads, "Scientific
9	Q. Do you have a source for	9	knowledge changes rapidly, but the
10	that?	10	concepts and methods of conduct of
11	A. I didn't say that. So why	11	research change more slowly. To
12	would I have a source?	12	stimulate discussion of outmoded thinking
13	Q. Do you have a source for	13	regarding the conduct of research, I list
14	what you just said?	14	six misconceptions about research that
15	A. Please repeat it.	15	persist long after their flaws become
16	Q. You said, "If you think you	16	apparent.
17	can put together studies that are biased,	17	"These misconceptions are:
18	for example, and that if you mix them	18	"Number one, the
19	together, although the bias will be	19	hierarchy" I'm sorry.
20	diluted, that's where it's not helpful."	20	"Number one, there is a
21	What is your source for that	21	hierarchy of study designs. Randomized
22	statement?	22	trials provide the greatest validity
23	A. The source? That adding	23	followed by cohort studies, with
24	biased studies together doesn't dilute	24	case-control studies being least

	Page 294		Page 296
1	reliable."	1	Q. Is that what he's saying?
2	So Dr. Rothman is indicating	2	MS. CURRY: Object to the
3	that there is a misconception that there	3	form.
4	is a hierarchy which ranks cohort studies	4	THE WITNESS: Yes, yes.
5	above case-control studies.	5	BY MS. GARBER:
6	A. He's admitting	6	Q. Okay. Thank you. That's
7	Q. Do you see that?	7	the only question that I had.
8	A. Yes. He's admitting that	8	He's also saying, number
9	this is the hierarchy.	9	three, "If a term that denotes the
10	Q. No. He's admitting that it	10	product of two factors is a regression
11	is a misconception to say that cohort	11	model" "is a regression model is not
12	studies are above case-control studies.	12	statistically significant, then there is
13	A. He's admitting that this is	13	no biologic interaction between those
14	a common thought, right? He's saying	14	factors."
15	there's a hierarchy. The misconceptions	15	So again, he is attempting
16	are, there's a hierarchy. So he's saying	16	to debunk this notion of holding at
17	there is this thought out there that	17	disparate statistically significant from
18	there's a hierarchy, because it's clear	18	nonstatistically significant data,
19	that there is and it's a commonly taught	19	correct?
20	thing.	20	MS. CURRY: Object to the
21	So this one doctor is	21	form.
22	saying, similar to the doctors you	22	BY MS. GARBER:
23	brought up earlier, let's throw away	23	Q. That's a misconception?
24	convention. And I would have to read the	24	THE WITNESS: I'm just
21	convention. And I would have to read the	21	THE WITHLESS. Thijust
	Page 295		Page 297
1	whole paper to understand why. But I	1	curious. Are you here are you
2			
	take this as the first statement to	2	more interested in me agreeing
3	take this as the first statement to say that there is he doesn't say well	2 3	
		I	more interested in me agreeing
3	say that there is he doesn't say well	3	more interested in me agreeing that you're reading this correctly
3 4	say that there is he doesn't say well recognized.	3 4	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd
3 4 5	say that there is he doesn't say well recognized. But I believe he took the	3 4 5	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about
3 4 5 6	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk	3 4 5 6	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these
3 4 5 6 7	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are	3 4 5 6 7	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm
3 4 5 6 7 8	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted.	3 4 5 6 7 8	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity.
3 4 5 6 7 8	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there,	3 4 5 6 7 8 9	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have
3 4 5 6 7 8 9	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that	3 4 5 6 7 8 9	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers
3 4 5 6 7 8 9 10	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that clinicians like yourself are putting	3 4 5 6 7 8 9 10	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers that you want to read and read
3 4 5 6 7 8 9 10 11	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that clinicians like yourself are putting cohort above case-control. And he's	3 4 5 6 7 8 9 10 11	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers that you want to read and read them out loud for you.
3 4 5 6 7 8 9 10 11 12 13	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that clinicians like yourself are putting cohort above case-control. And he's trying to debunk that because he doesn't	3 4 5 6 7 8 9 10 11 12 13	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers that you want to read and read them out loud for you. But I'm assuming that you
3 4 5 6 7 8 9 10 11 12 13 14	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that clinicians like yourself are putting cohort above case-control. And he's trying to debunk that because he doesn't agree with that; is that fair?	3 4 5 6 7 8 9 10 11 12 13 14	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers that you want to read and read them out loud for you. But I'm assuming that you would like to know if I agree with
3 4 5 6 7 8 9 10 11 12 13 14	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that clinicians like yourself are putting cohort above case-control. And he's trying to debunk that because he doesn't agree with that; is that fair? MS. CURRY: Object to the	3 4 5 6 7 8 9 10 11 12 13 14 15	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers that you want to read and read them out loud for you. But I'm assuming that you would like to know if I agree with it, why not if I disagree.
3 4 5 6 7 8 9 10 11 12 13 14 15	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that clinicians like yourself are putting cohort above case-control. And he's trying to debunk that because he doesn't agree with that; is that fair? MS. CURRY: Object to the form.	3 4 5 6 7 8 9 10 11 12 13 14 15 16	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers that you want to read and read them out loud for you. But I'm assuming that you would like to know if I agree with it, why not if I disagree. But I feel like you keep on
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that clinicians like yourself are putting cohort above case-control. And he's trying to debunk that because he doesn't agree with that; is that fair? MS. CURRY: Object to the form. MR. MIZGALA: Object to the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers that you want to read and read them out loud for you. But I'm assuming that you would like to know if I agree with it, why not if I disagree. But I feel like you keep on asking me, is that did I read
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that clinicians like yourself are putting cohort above case-control. And he's trying to debunk that because he doesn't agree with that; is that fair? MS. CURRY: Object to the form. MR. MIZGALA: Object to the form.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers that you want to read and read them out loud for you. But I'm assuming that you would like to know if I agree with it, why not if I disagree. But I feel like you keep on asking me, is that did I read that correctly, and I said yes,
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that clinicians like yourself are putting cohort above case-control. And he's trying to debunk that because he doesn't agree with that; is that fair? MS. CURRY: Object to the form. MR. MIZGALA: Object to the form. THE WITNESS: Can I tell you	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers that you want to read and read them out loud for you. But I'm assuming that you would like to know if I agree with it, why not if I disagree. But I feel like you keep on asking me, is that did I read that correctly, and I said yes, you read very well. And you say
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that clinicians like yourself are putting cohort above case-control. And he's trying to debunk that because he doesn't agree with that; is that fair? MS. CURRY: Object to the form. MR. MIZGALA: Object to the form. THE WITNESS: Can I tell you that there's	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers that you want to read and read them out loud for you. But I'm assuming that you would like to know if I agree with it, why not if I disagree. But I feel like you keep on asking me, is that did I read that correctly, and I said yes, you read very well. And you say do you agree with it? And I say no.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that clinicians like yourself are putting cohort above case-control. And he's trying to debunk that because he doesn't agree with that; is that fair? MS. CURRY: Object to the form. MR. MIZGALA: Object to the form. THE WITNESS: Can I tell you that there's BY MS. GARBER:	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers that you want to read and read them out loud for you. But I'm assuming that you would like to know if I agree with it, why not if I disagree. But I feel like you keep on asking me, is that did I read that correctly, and I said yes, you read very well. And you say do you agree with it? And I say
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	say that there is he doesn't say well recognized. But I believe he took the time to write this paper to try to debunk some of these things, because they are out there and well accepted. Q. Right. They're out there, and he is concerned about that, that clinicians like yourself are putting cohort above case-control. And he's trying to debunk that because he doesn't agree with that; is that fair? MS. CURRY: Object to the form. MR. MIZGALA: Object to the form. THE WITNESS: Can I tell you that there's BY MS. GARBER: Q. Doctor	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	more interested in me agreeing that you're reading this correctly or my response to it? Because I'd love to jump in and tell you about what I think about these statements. But I feel like I'm not being given an opportunity. And I you know, I could have come down and read all the papers that you want to read and read them out loud for you. But I'm assuming that you would like to know if I agree with it, why not if I disagree. But I feel like you keep on asking me, is that did I read that correctly, and I said yes, you read very well. And you say do you agree with it? And I say no. And then I go to try to

PageID: 193798 Kevin Holcomb, M.D.

	Page 298		Page 300
1	purpose of that?	1	that's what he's doing. I don't know the
2	BY MS. GARBER:	2	author.
3	Q. Are you done?	3	But to suggest that
4	A. Yes, I am.	4	something's published and ergo it's
5	Q. Okay. You know that I am	5	worthwhile, that's a big misconception.
6	here to ask you questions, and you're	6	Q. All right. And otherwise
7	here to answer questions. You also know	7	you agree with what I just said, if we
8	that this is in the context of a	8	if we amend my question to say it is a
9	cross-examination and your counsel has	9	published article
10	the opportunity to ask you questions too.	10	A. Can you repeat it because I
11	You understand that, right?	11	got so stuck on your mentioning that it
12	A. I understand.	12	was peer-reviewed that I didn't
13	Q. Thanks.	13	Q. I'll just move on.
14	All right. So Dr. Rothman	14	A I stopped listening.
15	in his peer-reviewed and published paper	15	Q. Did you attempt to look at
16	indicates that there is a misconception	16	what your institution said about study
17	about the hierarchy, which places cohorts	17	hierarchies?
18	above case-control. And this is a	18	MS. CURRY: Object to the
19	misconception about statistical	19	form.
20	significance and calling nonstatistically	20	THE WITNESS: My
21	results different from statistical	21	institution? Which institution?
22	significant results.	22	BY MS. GARBER:
23	Can we agree with that?	23	Q. Where do you work? Where do
24	MS. CURRY: Object to the	24	you work?
	Page 299		Page 301
1	form.	1	A. I work in two I'm
2	THE WITNESS: No.	2	actually an employee of Weill Cornell
3	BY MS. GARBER:	3	Medical Center. But I
4	Q. You don't agree with that?	4	Q. Okay. And that's your
5	A. Because you started off the	5	institution, right?
6	statement by saying this is	6	A. As is New York Presbyterian
7	peer-reviewed. This is a review article.	7	Hospital, which is separate, so which
8	Î don't know if it's peer-reviewed.	8	institution
9	Q. It's a published article?	9	Q. You have privileges at both?
10	A. It's not peer-reviewed	10	A. I don't have privileges in
11	necessarily.	11	the medical school because that's not our
12	Q. But it's a published?	12	medical school's work. So, no, I don't
13	A. You said peer-reviewed.	13	have privileges
14	Q. I know.	14	Q. You don't have privileges
15	A. I'm saying, do you know that	15	in in the hospital associated
16	it was peer reviewed?	16	A. The hospital is is owned
17	Q. Now I'm saying, it's a	17	by New York Presbyterian Hospital.
18	published article, right?	18	Q. Okay.
19	A. Simple yeah, you can	19	A. So I have no privileges at
20	it's an open access journal that you	20	Weill Cornell.
		21	Q. Got it. I didn't understand
21	can I mean, just because something is		
21 22	published, you're making it seem like	22	the the nature of that.
21		22 23	the the nature of that. So did you look at Weill
21 22	published, you're making it seem like	1	

PageID: 193799 Kevin Holcomb, M.D.

	Page 302		Page 304
1	MS. CURRY: Object to the	1	from studies, and then brought into
2	form.	2	clinical practice.
3	THE WITNESS: I don't know	3	Q. Okay. And under that
4	if well, no, I don't know that	4	heading in the hierarchy at the top lists
5	Weill Cornell has a study	5	Cochrane systematic reviews. Do you know
6	hierarchy.	6	what those are?
7	BY MS. GARBER:	7	A. Yes.
8	Q. Okay.	8	Q. Have you ever considered
9	(Document marked for	9	them for purposes of your practice?
10	identification as Exhibit	10	A. Yes.
11	Holcomb-17.)	11	Q. You ever considered them for
12	BY MS. GARBER:	12	purposes of your opinions?
13		13	A. They are part of it
14	Q. Let's mark as Exhibit 17 a	14	MS. CURRY: Object to the
	document.		3
15	And, Doctor, this is a	15	form.
16	printout of a website from Weill Cornell.	16	THE WITNESS: yes.
17	And it is titled "Evidence-based	17	BY MS. GARBER:
18	Medicine, or EBM, Defined."	18	Q. And next on the top of the
19	Did I read that correctly?	19	hierarchy is what?
20	A. You did.	20	A. I'm not sure what SR is
21	Q. Under the definition it	21	systematic reviews, must be, and
22	reads, "Evidence-based medicine requires	22	meta-analyses.
23	the integration of the best research	23	Q. Mm-hmm. So up above the
24	evidence with our clinical expertise, and	24	cohorts and the case-control are
	Page 303		Page 305
			1 agc 303
1		1	
1 2	our patients' unique values and	1 2	systematic reviews and meta-analyses,
2	our patients' unique values and circumstances."	2	systematic reviews and meta-analyses, right, on this evidence-based hierarchy,
2 3	our patients' unique values and circumstances." And then there's a citation		systematic reviews and meta-analyses,
2 3 4	our patients' unique values and circumstances." And then there's a citation to Straus, S-T-R-A-U-S, et al.,	2 3	systematic reviews and meta-analyses, right, on this evidence-based hierarchy, right? A. Yes.
2 3 4 5	our patients' unique values and circumstances." And then there's a citation to Straus, S-T-R-A-U-S, et al., Evidence-based Medicine 2015.	2 3 4 5	systematic reviews and meta-analyses, right, on this evidence-based hierarchy, right? A. Yes. Q. All right. And then there's
2 3 4 5 6	our patients' unique values and circumstances." And then there's a citation to Straus, S-T-R-A-U-S, et al., Evidence-based Medicine 2015. Did you see this before you	2 3 4	systematic reviews and meta-analyses, right, on this evidence-based hierarchy, right? A. Yes. Q. All right. And then there's evidence guidelines and the evidence
2 3 4 5 6 7	our patients' unique values and circumstances." And then there's a citation to Straus, S-T-R-A-U-S, et al., Evidence-based Medicine 2015. Did you see this before you put in your expert report the hierarchy	2 3 4 5 6 7	systematic reviews and meta-analyses, right, on this evidence-based hierarchy, right? A. Yes. Q. All right. And then there's evidence guidelines and the evidence summaries. And then one, two, three,
2 3 4 5 6 7 8	our patients' unique values and circumstances." And then there's a citation to Straus, S-T-R-A-U-S, et al., Evidence-based Medicine 2015. Did you see this before you put in your expert report the hierarchy that you put from the	2 3 4 5 6	systematic reviews and meta-analyses, right, on this evidence-based hierarchy, right? A. Yes. Q. All right. And then there's evidence guidelines and the evidence summaries. And then one, two, three, four fifth down, lists randomized
2 3 4 5 6 7 8 9	our patients' unique values and circumstances." And then there's a citation to Straus, S-T-R-A-U-S, et al., Evidence-based Medicine 2015. Did you see this before you put in your expert report the hierarchy that you put from the A. No.	2 3 4 5 6 7 8	systematic reviews and meta-analyses, right, on this evidence-based hierarchy, right? A. Yes. Q. All right. And then there's evidence guidelines and the evidence summaries. And then one, two, three, four fifth down, lists randomized clinical trials, case cohorts, and
2 3 4 5 6 7 8 9	our patients' unique values and circumstances." And then there's a citation to Straus, S-T-R-A-U-S, et al., Evidence-based Medicine 2015. Did you see this before you put in your expert report the hierarchy that you put from the A. No. Q management website?	2 3 4 5 6 7 8 9	systematic reviews and meta-analyses, right, on this evidence-based hierarchy, right? A. Yes. Q. All right. And then there's evidence guidelines and the evidence summaries. And then one, two, three, four fifth down, lists randomized clinical trials, case cohorts, and control studies. All in the same line,
2 3 4 5 6 7 8 9 10	our patients' unique values and circumstances." And then there's a citation to Straus, S-T-R-A-U-S, et al., Evidence-based Medicine 2015. Did you see this before you put in your expert report the hierarchy that you put from the A. No. Q management website? A. No.	2 3 4 5 6 7 8 9 10	systematic reviews and meta-analyses, right, on this evidence-based hierarchy, right? A. Yes. Q. All right. And then there's evidence guidelines and the evidence summaries. And then one, two, three, four fifth down, lists randomized clinical trials, case cohorts, and control studies. All in the same line, correct?
2 3 4 5 6 7 8 9 10 11	our patients' unique values and circumstances." And then there's a citation to Straus, S-T-R-A-U-S, et al., Evidence-based Medicine 2015. Did you see this before you put in your expert report the hierarchy that you put from the A. No. Q management website? A. No. MS. CURRY: Object to the	2 3 4 5 6 7 8 9 10 11 12	systematic reviews and meta-analyses, right, on this evidence-based hierarchy, right? A. Yes. Q. All right. And then there's evidence guidelines and the evidence summaries. And then one, two, three, four fifth down, lists randomized clinical trials, case cohorts, and control studies. All in the same line, correct? A. Yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	our patients' unique values and circumstances." And then there's a citation to Straus, S-T-R-A-U-S, et al., Evidence-based Medicine 2015. Did you see this before you put in your expert report the hierarchy that you put from the A. No. Q management website? A. No. MS. CURRY: Object to the form. BY MS. GARBER: Q. Doctor, if we could look at this together. Evidence-based medicine. That is what that's a that's a medical term, right, evidence-based medicine? A. Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	systematic reviews and meta-analyses, right, on this evidence-based hierarchy, right? A. Yes. Q. All right. And then there's evidence guidelines and the evidence summaries. And then one, two, three, four fifth down, lists randomized clinical trials, case cohorts, and control studies. All in the same line, correct? A. Yes. Q. And so that's a little different than your hierarchy, right? A. Yes. MS. CURRY: Object to the form. BY MS. GARBER: Q. And this one relates to medicine, not to management and business, right?
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PageID: 193800 Kevin Holcomb, M.D.

	Page 306		Page 308
1	relates to medicine.	1	the cohort study. And then the
2	BY MS. GARBER:	2	weaknesses and biologic
3	Q. And this is from the web	3	plausibility that led me to the
4	this is from the off the website of	4	opinion that I offered in the
5	where you practice medicine?	5	beginning.
6	A. Yes.	6	BY MS. GARBER:
7	Q. And where you teach?	7	Q. Do you believe that the
8	A. And where I teach. And I	8	case-control studies are less reliable
9	don't necessarily disagree that a	9	than the cohort studies?
10	well-designed	10	A. I believe that all study
11	Q. Doctor, I didn't ask you if	11	designs can have weaknesses. And a
12	you disagreed or not	12	poorly designed study can come in the
13	A. Okay.	13	form of any type.
14	Q I just asked you	14	You can have a poorly
15	A. Just to read the website.	15	designed cohort study. You can have a
16	MS. CURRY: Let him finish	16	poorly designed case-control study. You
17	his response, please.	17	can have a poorly designed meta-analysis.
18	BY MS. GARBER:	18	I'm sorry, I forgot your
19	Q. Are you aware that the link	19	question now.
20	between smoking and lung cancer was	20	Q. That's okay.
21	initially discovered in the case-control	21	And with regard to the
22	studies carried out in the 1950s, are you	22	cohort studies, Doctor, I don't see in
23	aware of that?	23	your expert report where you talk about
24	A. Yes.	24	the design limitations, specifically what
			uio uooigii iiiiiiiiiioiii, opeeiiioiiii, iiiiii
	D 207		
	Page 307		Page 309
1	Q. As a physician you do	1	Page 309 even the authors talk about as the design
1 2		1 2	even the authors talk about as the design limitations.
	Q. As a physician you do	1	even the authors talk about as the design
2	Q. As a physician you do consider meta-analyses in your practice?	2	even the authors talk about as the design limitations.
2	Q. As a physician you do consider meta-analyses in your practice? A. Yes.	2 3	even the authors talk about as the design limitations. You don't you don't talk
2 3 4	Q. As a physician you do consider meta-analyses in your practice?A. Yes.Q. And as to the cohort studies	2 3 4	even the authors talk about as the design limitations. You don't you don't talk about those in your expert report, right?
2 3 4 5	 Q. As a physician you do consider meta-analyses in your practice? A. Yes. Q. And as to the cohort studies in this case, do you rely primarily on 	2 3 4 5	even the authors talk about as the design limitations. You don't you don't talk about those in your expert report, right? A. I'd have to read through it.
2 3 4 5 6	 Q. As a physician you do consider meta-analyses in your practice? A. Yes. Q. And as to the cohort studies in this case, do you rely primarily on them in support of your opinions? 	2 3 4 5 6	even the authors talk about as the design limitations. You don't you don't talk about those in your expert report, right? A. I'd have to read through it. I'm not sure.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. As a physician you do consider meta-analyses in your practice? A. Yes. Q. And as to the cohort studies in this case, do you rely primarily on them in support of your opinions? MS. CURRY: Object to the form. THE WITNESS: No. As I stated in the beginning, it's the totality of their reviews. So the cohort studies which, you know, I will still say as a design are less prone to bias than case-control studies regardless of how this is, I don't think any anybody questions that. I will look at the whole picture which is what I did with the talc literature. So it was the inconsistency in case-control results. It was the low level of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	even the authors talk about as the design limitations. You don't you don't talk about those in your expert report, right? A. I'd have to read through it. I'm not sure. Q. Okay. A. I'm not sure if I address that. Q. I'll represent to you that I couldn't find a single word about you talking about the design limitations. So you can check me to see if I'm wrong. You do talk about some of the design limitations and the problems with the case-control studies, correct? A. That is true. Q. And you do talk about some of the design limitations and problems of the meta-analyses, right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. As a physician you do consider meta-analyses in your practice? A. Yes. Q. And as to the cohort studies in this case, do you rely primarily on them in support of your opinions? MS. CURRY: Object to the form. THE WITNESS: No. As I stated in the beginning, it's the totality of their reviews. So the cohort studies which, you know, I will still say as a design are less prone to bias than case-control studies regardless of how this is, I don't think any anybody questions that. I will look at the whole picture which is what I did with the talc literature. So it was the inconsistency in case-control results. It was the low level of strength of association that I	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	even the authors talk about as the design limitations. You don't you don't talk about those in your expert report, right? A. I'd have to read through it. I'm not sure. Q. Okay. A. I'm not sure if I address that. Q. I'll represent to you that I couldn't find a single word about you talking about the design limitations. So you can check me to see if I'm wrong. You do talk about some of the design limitations and the problems with the case-control studies, correct? A. That is true. Q. And you do talk about some of the design limitations and problems of the meta-analyses, right? A. Yes. Q. And so in your opinion the case-control studies do not support
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. As a physician you do consider meta-analyses in your practice? A. Yes. Q. And as to the cohort studies in this case, do you rely primarily on them in support of your opinions? MS. CURRY: Object to the form. THE WITNESS: No. As I stated in the beginning, it's the totality of their reviews. So the cohort studies which, you know, I will still say as a design are less prone to bias than case-control studies regardless of how this is, I don't think any anybody questions that. I will look at the whole picture which is what I did with the talc literature. So it was the inconsistency in case-control results. It was the low level of	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	even the authors talk about as the design limitations. You don't you don't talk about those in your expert report, right? A. I'd have to read through it. I'm not sure. Q. Okay. A. I'm not sure if I address that. Q. I'll represent to you that I couldn't find a single word about you talking about the design limitations. So you can check me to see if I'm wrong. You do talk about some of the design limitations and the problems with the case-control studies, correct? A. That is true. Q. And you do talk about some of the design limitations and problems of the meta-analyses, right? A. Yes. Q. And so in your opinion the

PageID: 193801 Kevin Holcomb, M.D.

	Page 310		Page 312
1	powder product exposure and risk of	1	increased risk in ovarian cancer?
2	ovarian cancer, right?	2	MS. CURRY: Object to the
3	A. My feeling is that the	3	form.
4	case-control studies are not consistent	4	THE WITNESS: In which
5	in their results. That some studies show	5	study?
6	an association and some studies don't.	6	BY MS. GARBER:
7	And that it seems to be as consistent as	7	Q. In the meta-analysis as a
8	flipping a coin.	8	body?
9	Q. Do they support the opinion	9	A. Again, yes.
10	that there is an increased risk, yes or	10	Q. Okay. The only group of
11	no?	11	studies that, in your opinion, don't
12	A. Some do, and some don't.	12	support an increased risk, you don't have
13	Q. Okay. What about the the	13	a single criticism of, yet the studies
14	cohort studies, do they support an	14	that do, you criticize; is that fair?
15	increased risk for	15	MS. CURRY: Object to the
16	A. No.	16	form.
17	Q. Let me finish my sentence.	17	THE WITNESS: If you that
18	A. Sorry.	18	is true. I'm criticizing all the
19	Q. Do the cohort studies	19	case-control studies as a design.
20	support an increased risk for talcum	20	But that means I'm criticizing the
21	powder exposure and ovarian cancer?	21	ones that didn't find an
22	A. The initial Gertig study had	22	association just as much as I'm
23	found that in a subset of just	23	criticizing the ones that do.
24	histologically split out there was an	24	
21	instologically split out there was all	24	I'm saying at the design,
	Page 311		Page 313
1	increased risk of serous carcinoma. The	1	there are flaws in case-control
2	reason why we're saying no about cohort	2	studies. And so I'm not just
3	studies is because the same group of	3	trying to pick on the positive
4	women, when followed longer in Gates,	4	case-control studies. I'm talking
5	that significance dropped down.	5	about case-control studies.
6	So I would say overall in	6	And that's from my look
7	those populations, the sister study, the	7	
			at the literature, I'm saying that
8	WHI, and the Nurses' Health Study, that	8	at the literature, I'm saying that about half of them saying there is
8 9	WHI, and the Nurses' Health Study, that they did not support an increased risk.	1 -	at the literature, I'm saying that about half of them saying there is an association and half of them
		8	about half of them saying there is
9	they did not support an increased risk. Q. Do the meta-analyses as a	8 9	about half of them saying there is an association and half of them
9 10	they did not support an increased risk. Q. Do the meta-analyses as a whole support an increased risk of talcum	8 9 10	about half of them saying there is an association and half of them saying that there's not, I'm
9 10 11	they did not support an increased risk. Q. Do the meta-analyses as a whole support an increased risk of talcum powder exposure and ovarian cancer?	8 9 10 11	about half of them saying there is an association and half of them saying that there's not, I'm criticizing case-control study
9 10 11 12	they did not support an increased risk. Q. Do the meta-analyses as a whole support an increased risk of talcum powder exposure and ovarian cancer? A. Not surprisingly, the	8 9 10 11 12	about half of them saying there is an association and half of them saying that there's not, I'm criticizing case-control study design altogether. BY MS. GARBER:
9 10 11 12 13	they did not support an increased risk. Q. Do the meta-analyses as a whole support an increased risk of talcum powder exposure and ovarian cancer?	8 9 10 11 12 13	about half of them saying there is an association and half of them saying that there's not, I'm criticizing case-control study design altogether. BY MS. GARBER: Q. You said generally that
9 10 11 12 13 14	they did not support an increased risk. Q. Do the meta-analyses as a whole support an increased risk of talcum powder exposure and ovarian cancer? A. Not surprisingly, the meta-analyses all say that the case-control studies do and the cohort	8 9 10 11 12 13 14	about half of them saying there is an association and half of them saying that there's not, I'm criticizing case-control study design altogether. BY MS. GARBER: Q. You said generally that there can be design problems with
9 10 11 12 13 14	they did not support an increased risk. Q. Do the meta-analyses as a whole support an increased risk of talcum powder exposure and ovarian cancer? A. Not surprisingly, the meta-analyses all say that the	8 9 10 11 12 13 14 15	about half of them saying there is an association and half of them saying that there's not, I'm criticizing case-control study design altogether. BY MS. GARBER: Q. You said generally that there can be design problems with cohorts, yet I don't see a single
9 10 11 12 13 14 15	they did not support an increased risk. Q. Do the meta-analyses as a whole support an increased risk of talcum powder exposure and ovarian cancer? A. Not surprisingly, the meta-analyses all say that the case-control studies do and the cohort studies don't, and when you mix the 27 case-control studies with the three	8 9 10 11 12 13 14 15 16	about half of them saying there is an association and half of them saying that there's not, I'm criticizing case-control study design altogether. BY MS. GARBER: Q. You said generally that there can be design problems with cohorts, yet I don't see a single reference to the design limitations of
9 10 11 12 13 14 15 16 17	they did not support an increased risk. Q. Do the meta-analyses as a whole support an increased risk of talcum powder exposure and ovarian cancer? A. Not surprisingly, the meta-analyses all say that the case-control studies do and the cohort studies don't, and when you mix the 27 case-control studies with the three cohorts and weigh them fairly equally,	8 9 10 11 12 13 14 15 16 17	about half of them saying there is an association and half of them saying that there's not, I'm criticizing case-control study design altogether. BY MS. GARBER: Q. You said generally that there can be design problems with cohorts, yet I don't see a single reference to the design limitations of the cohorts that play in this case,
9 10 11 12 13 14 15 16 17 18	they did not support an increased risk. Q. Do the meta-analyses as a whole support an increased risk of talcum powder exposure and ovarian cancer? A. Not surprisingly, the meta-analyses all say that the case-control studies do and the cohort studies don't, and when you mix the 27 case-control studies with the three cohorts and weigh them fairly equally, that you will find an increased risk when	8 9 10 11 12 13 14 15 16 17	about half of them saying there is an association and half of them saying that there's not, I'm criticizing case-control study design altogether. BY MS. GARBER: Q. You said generally that there can be design problems with cohorts, yet I don't see a single reference to the design limitations of the cohorts that play in this case, right?
9 10 11 12 13 14 15 16 17 18 19 20	they did not support an increased risk. Q. Do the meta-analyses as a whole support an increased risk of talcum powder exposure and ovarian cancer? A. Not surprisingly, the meta-analyses all say that the case-control studies do and the cohort studies don't, and when you mix the 27 case-control studies with the three cohorts and weigh them fairly equally, that you will find an increased risk when you mix them altogether, which is not at	8 9 10 11 12 13 14 15 16 17 18 19 20	about half of them saying there is an association and half of them saying that there's not, I'm criticizing case-control study design altogether. BY MS. GARBER: Q. You said generally that there can be design problems with cohorts, yet I don't see a single reference to the design limitations of the cohorts that play in this case, right? A. Well, one of the concerns
9 10 11 12 13 14 15 16 17 18 19 20 21	they did not support an increased risk. Q. Do the meta-analyses as a whole support an increased risk of talcum powder exposure and ovarian cancer? A. Not surprisingly, the meta-analyses all say that the case-control studies do and the cohort studies don't, and when you mix the 27 case-control studies with the three cohorts and weigh them fairly equally, that you will find an increased risk when you mix them altogether, which is not at all surprising.	8 9 10 11 12 13 14 15 16 17 18 19 20 21	about half of them saying there is an association and half of them saying that there's not, I'm criticizing case-control study design altogether. BY MS. GARBER: Q. You said generally that there can be design problems with cohorts, yet I don't see a single reference to the design limitations of the cohorts that play in this case, right? A. Well, one of the concerns that you can have with a cohort study is
9 10 11 12 13 14 15 16 17 18 19 20	they did not support an increased risk. Q. Do the meta-analyses as a whole support an increased risk of talcum powder exposure and ovarian cancer? A. Not surprisingly, the meta-analyses all say that the case-control studies do and the cohort studies don't, and when you mix the 27 case-control studies with the three cohorts and weigh them fairly equally, that you will find an increased risk when you mix them altogether, which is not at	8 9 10 11 12 13 14 15 16 17 18 19 20	about half of them saying there is an association and half of them saying that there's not, I'm criticizing case-control study design altogether. BY MS. GARBER: Q. You said generally that there can be design problems with cohorts, yet I don't see a single reference to the design limitations of the cohorts that play in this case, right? A. Well, one of the concerns

Document 32999-25 PageID: 193802

Kevin Holcomb, M.D.

Page 314 Page 316 1 understanding of the data, I was not 1 true, Doctor, that none of the cohort 2 concerned -- size I already explained, 2 studies were specifically designed to 3 that I was concerned since it was such a 3 investigate the relationship of talcum 4 small level of effect in the case-control 4 powder product use and the risk of 5 studies. It wasn't until I saw Berge. 5 ovarian cancer? 6 when they put them together, that I 6 MS. CURRY: Object to the realized that you could overcome that 7 7 form. 8 size problem. And so I was not concerned 8 THE WITNESS: Specifically 9 that you would pick up an effect size 9 no. 10 that small. 10 BY MS. GARBER: 11 Q. Do you remember what my 11 Q. Rather, the cohorts were 12 question was? 12 designed to study a large number of 13 A. Yes. You asked me did I 13 outcomes in a wide variety of exposures, 14 bring up criticisms. And I'm saying my 14 true? A. True. When you do a cohort 15 criticisms about cohort studies in 15 16 general, I was able to put to rest with 16 study, because of the time and money my reading of those cohort studies, invested, you are very rarely going to 17 17 whereas things like recall bias -- and we design a cohort study to answer one 18 18 19 already went through Schildkraut -- I was 19 question. able to find examples of why I was 20 20 Q. Right. And that's a concerned, and then find examples of limitation, right? 21 21 studies where I thought they were at 2.2 2.2 MS. CURRY: Object to the 23 play. 23 form. 24 24 So, I'm just explaining to THE WITNESS: I'm not Page 315 Page 317 1 you, you're saying, why is there an 1 sure --2 absence of criticisms on these things. I 2 BY MS. GARBER: 3 didn't find any evidence of those things 3 Q. It's okay. 4 at play in the cohort studies. 4 A. -- in what way that was a 5 5 Q. So you didn't find as the limitation. 6 expert for Johnson & Johnson in the 6 You're not sure? Q. 7 7 studies that didn't find an increased A. No. risk in your opinion, and you didn't O. Okay. With a cohort study 8 8 9 bother to advise the court that there are 9 looking at a rare cancer like ovarian 10 design limitations in that group of 10 cancer, the study has to be large enough studies, the cohorts, yet you did tell 11 to detect the true relative risk. 11 the court about the study limitations of 12 12 Do you agree with that? 13 the case-control and the study 13 A. I agree. limitations of the meta-analyses, true? 14 O. So in fact, that a cohort 14 15 15 MS. CURRY: Object to the does not find a significant relative risk can be due to the small study size, 16 16 form. 17 BY MS. GARBER: 17 correct? 18 18 Q. I didn't ask why. I just MS. CURRY: Object to the 19 19 said true. form. 20 True. 20 THE WITNESS: Correct. A. 21 Thank you. 21 BY MS. GARBER: All right. Let's look at a 22 22 Q. The sample sizes and the couple of things. So in looking at the 23 23 number of cases of most of the cohort 24 cohort studies and the limitations, is it 24 study publications were too small to be

PageID: 193803 Kevin Holcomb, M.D.

able to accurately detect a relative risk around 1.2 to 1.3. Do you agree with that statement? MS. CURRY: Object to the form. THE WITNESS: I'm not sure. I - I've seen the opinion expressed in the Narod paper that you you had produced earlier. And I keep on referring to Berge only because it was the one meta-analysis where they actually addressed that. Narod said you need like 15		Page 318		Page 320
around 1.2 to 1.3 a Do you agree with that statement? MS. CURRY: Object to the form. THE WITNESS: I'm not sure. I - I've seen the opinion expressed in the Narod paper that you you had produced earlier. And I keep on referring to Berge only because it was the one meta-analysis where they actually dadressed that. Narod said you need like 200,000 women to see this effect size, and then you look at three studies with 78,000, 61,000, 19 effect size in a meta-analysis at hat is held so highly to see the same effect size in the Page 319 case-control studies. BY MS. GARBER: Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi with bean amore recent study, right? A. But the problem the problem with Penninkilampi is that Berge says the first thing THE WITNESS: The problem the problem with Penninkilampi is that Berge says the first thing The Witness and say well problem with putting The problems with putting The meta-analysis is probably the most at risk for The witness and the problem. The witness and say well, this that is generally thought to be a no-no, we don't do cross-trial that is generally thought to be a no-no, we don't do cross-trial that is generally thought to be a no-no, we don't do cross-trial on-no, no, do women taking this chemotherappo over there and a group of women taking this chemotherappo over there and a group of women taking this chemotherappo over there, we don't compare those two there, we don't emperate and group of there, we don't compare the study showed a response rate of th	1	able to accurately detect a relative risk	1	your study and then coming out
Joyou agree with that statement? MS. CURRY: Object to the form. THE WITNESS: I'm not sure. I I've seen the opinion expressed in the Narod paper that you you had produced earlier. And I keep on referring to Berge only because it was the one meta-analysis where they actually addressed that. Narod said you need like 200,000 women to see this effect size, and then you look at three studies with 78,000, 61,000, 19 41,000. You're getting close to 20 that 200,000. They say, we have 21 99 percent power to detect the effect size in a meta-analysis that is held so highly to see the same effect size in the Page 319 Page 321 case-control studies. BY MS. GARBER: Q. Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem MS. CURRY: Object to the form. Page 319 Page 321 And one of the first things that is generally thought to be a non-no, we don't do cross-trial comparisons in general. If you had a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this chemotherapy over here and a group of women taking this that to Som here, we don't suits that is guardian and synule is study showed a response rate of this. This showed this, this. This showed t			2	
4 statement? 5 MS. CURRY: Object to the 6 form. 7 THE WITNESS: I'm not sure. 8 I I've seen the opinion 9 expressed in the Narod paper that 10 you you had produced earlier. 11 And I Keep on referring to Berge 12 only because it was the one 13 meta-analysis where they actually 14 addressed that. 15 Narod said you need like 16 200,000 women to see this effect 17 size, and then you look at three 18 studies with 78,000, 61,000, 19 41,000. You're getting close to 19 that 200,000. They say, we have 20 that 200,000. They say, we have 21 99 percent power to detect the 22 effect size in a meta-analysis 23 that is held so highly to see the 24 same effect size in the 25 Penninkilampi which was a more recent 26 study, right? 27 A. But the problem 28 MS. CURRY: Object to the 29 form. 20 THE WITNESS: The problem 21 the problem with Penninkilampi is 22 that a Berge says the first thing 23 that in Berge says the first thing 24 at the terogeneity and see if these 25 the root of the problem with Penninkilampi is 16 the problems with putting 17 meta-analyses on the top of your 18 thing is assuming it's well 29 designed. 20 And I think mata-analysis is 20 But I think meta-analysis is 21 probably the most at risk for 22 were going to women taking this chemotherapy over there, we don't compare those two comparisons in general. If you had a group of women taking this chemotherapy over there, we don't compare those two chemotherapy over there, we don't compare those two chemotherapy over there, we don't compare those two flemotherapy over there, we don't compare those two chemotherapy over there, we don't compare these two study study showed a response rate of there, we don't compare those two, well, this this. This showed this, this. 15 So whenever you're getting to be there. 16 to mix these people together, you wan			3	•
5 MS. CURRY: Object to the form. 6 form. 7 THE WITNESS: I'm not sure. 8 I I've seen the opinion 8 expressed in the Narod paper that you you had produced earlier. 10 you you had produced earlier. 11 And I keep on referring to Berge only because it was the one 12 study showed a response rate of the 20,000 women to see this effect 15 So whenever you're going against that rule and you're going 17 size, and then you look at three 18 studies with 78,000, 61,000, 18 want to make sure that there's not heterogeneity. And the reason why 19 percent power to detect the 21 same effect size in a meta-analysis 22 looked at prepties more with that shelds ob highly to see the 23 studies with 26 with 18 study, right? 10		•	4	•
form. THE WITNESS: I'm not sure. The Mitness as a well, this study showed a response rate of there, we don't compare those the study, showed this, this. This showed this, this. This. This showed this, this. This showed this, this. This. This showed this, this. This. This showed this, this. This showed this, this. This showed this, this. The Remain sure with out of the study showed a response rate of the study, showed a response rate of the study, showed a response rate of the study, showed a response rate of the study showed a response rate of the study, regoing against that rule and you're going against the rule and you're going to make study showed this, this. This showed this, this. This showed this, this. There, we don't compare hose the study showed a response rate of the hear. The Remain sure will the same study showed an sure will the same study showed the same study showed an study showed the study. The We not compared to the hemotherapy over he			5	
THE WITNESS: I'm not sure. 8		· · · · · · · · · · · · · · · · · · ·	6	
8 I — I've seen the opinion 9 expressed in the Narod paper that 10 you — you had produced earlier. 11 And I keep on referring to Berge 12 only because it was the one 13 meta-analysis where they actually 14 addressed that. 15 Narod said you need like 16 200,000 women to see this effect 17 size, and then you look at three 18 studies with 78,000, 61,000, 19 41,000. You're getting close to 19 that 200,000. They say, we have 20 that 200,000. They say, we have 21 99 percent power to detect the 22 effect size in a meta-analysis 23 that is held so highly to see the 24 same effect size in the Page 319 1 case-control studies. 2 BY MS. GARBER: 3 Q. Well, you do go to Berge all 4 the time. But you do that by ignoring 5 Penninkilampi which was a more recent 6 study, right? 7 A. But the problem — 6 study, right? 7 A. But the problem — 7 A. But the problem — 8 MS. CURRY: Object to the 9 form. 10 THE WITNESS: The problem— 11 the problem with Penninkilampi is 12 that Berge says the first thing 10 at het box is I'm going to look 11 at het roesenity and see if these 12 should be mixed. And one of the 13 probably the most at risk for 8 Man I think all these 24 sudies and have design flaws. 25 But I think meta-analysis is 26 probably the most at risk for 8 Weput them altogether, you there are too much the problem. 16 problems with putting 17 meta-analyses is 18 chemotherapy over there, we don't compare those two text when, there, we don't chere, we don't compare these two study is study showed a response rate of this. This showed this, this, that. 18 chemotherapy over there, we don't compare those two is study showed a response rate of this. This showed this, this. 14 that. 15 So whenever you're going against that rule and you're going against that ru	7	THE WITNESS: I'm not sure.	7	
9 expressed in the Narod paper that you you had produced earlier. 10 you you had produced earlier. 11 And I keep on referring to Berge only because it was the one meta-analysis where they actually addressed that. 12 study showed a response rate of this. This showed his, this, that. 15 Narod said you need like 15 So whenever you're going against that rule and you're going to mix these people together, you want to make sure that there's not heterogeneity. And the reason why 14,000. You're getting close to that 200,000. They say, we have 20 that 200,000. They say, we have 20 effect size in a meta-analysis 22 defect size in a meta-analysis 22 defect size in a meta-analysis 24 same effect size in the 24 with heterogeneity, whereas Berge 24 same effect size in the 25 Penninkilampi which was a more recent study, right? A. But the problem the problem with Penninkilampi is 12 that Berge says the first thing 12 that Berge says the first thing 13 out the box is I'm going to look at at heterogeneity winds at heterogeneity and see if these 5 should be mixed. And one of the problems with putting 19 designed. 19 designed. 20 And I think all these 5 studies can have design flaws. 21 But I think meta-analysis is probably the most at risk for 23 were response rate of chemotherapies and say well, this study showed a response rate of this, this, that. 4 that. 5 So whenever you're going against that rule and you're going to to mix thate study green, you want to make sure that there's not heterogeneity. And the reason why 1 keep on going back to mix that all and you're going against that rule and you're going day to mix that say syell, I sund the re	8	I I've seen the opinion	8	
10 you you had produced earlier. 11 And I keep on referring to Berge only because it was the one meta-analysis where they actually addressed that. 12 Narod said you need like 15 So whenever you're going against that rule and you're going to mix these people together, you want to make sure that there's not heterogeneity. And the reason why 1 keep on going back to Berge, is because Penninkilampi somehow with heterogeneity my here as Berge with heterogeneity my here as Berge 321 Sep Ms. GARBER: 20 Well, you do go to Berge all the time. But you do that by ignoring Penninkilampi which was a more recent study, right? A. But the problem Ms. CURRY: Object to the form. THE WITNESS: The problem the problem with Penninkilampi is a that Berge says the first thing our the box is I'm going to look at at at heterogeneity and see if these should be mixed. And one of the problems with putting that Berge says the first thing designed. And I think all these studies and alt think all these studies and think all these studies and rook and a the studies and the problem. BY Ms. GARBER: 20 And I think all these studies and rook an	9		9	1.
11 And I keep on referring to Berge only because it was the one 12 study showed a response rate of this. This showed this, this, 14 addressed that. 14 So whenever you're going 200,000 women to see this effect 16 size, and then you look at three 17 studies with 78,000, 61,000, 18 studies with 61,000, 18 studies with 78,000, 61,000, 18 studies with 78,000, 61,000, 18 studies with 61,000, 18 studies with 61,000, 18 studies with 61,000, 18 studies with 78,000, 61,000, 18 studies with 78,000, 61,000, 18 studies with 61,000, 18 studies with 78,000, 61,000, 18 studies and studies with 78,000, 61,000, 18 st	10		10	
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Kevin Holcomb, M.D.

Page 322 Page 324 1 remember them splitting out the case them separately. 1 2 Q. So, Doctor, if you would 2 controls and the -- they -- they do say 3 then look at the Penninkilampi all the impact -- the positive effect was 3 4 meta-analysis which is later than the 4 in case-control, not in cohort studies. 5 Berge meta-analysis, right? 5 Taher does say that. б A. Yes. 6 Although Taher, if you look 7 7 at the tables, there's a few things that Q. And the Berge meta-analysis, 8 and you say that those are basically the 8 I don't understand. Like they -- they 9 same studies that the two study groups --9 say, actually in the cohort studies that 10 A. There's a lot of overlap. 10 there is some increased risk of -- of 11 Q. -- studied, right? 11 ovarian cancer. And the Penninkilampi says 12 12 And they -- they are 13 there's no heterogeneity. And the Berge 13 actually including Gates in that. And that says there is. What is your basis they say there's possibly an increased 14 14 risk in -- in Gates. And then go onto 15 to say Berge is right and Penninkilampi 15 16 is wrong? 16 say, "but not mucinous." 17 17 But in Gates there was no A. Because if you can share --O. You don't like the results 18 18 increased risk of any of the types. In fact, the only one that came the closest 19 of Penninkilampi? 19 20 A. -- if you can share -- yes. 20 to it was mucinous. If you can share Penninkilampi, because 21 21 Q. We're going to get to that, Berge the -- Berge, Berge, I don't know and we'll go through that data, okay? 22 22 23 if I'm pronouncing it correctly, sorry. 23 A. Sure. 24 Q. However you say it. 24 Q. Let's look at Health Canada Page 323 Page 325 1 A. The first thing they do is 1 as to the topic of case-control -- or 2 to talk about heterogeneity in study 2 cohort studies. 3 design. And I'd like to see in 3 A. Yes. 4 Penninkilampi to say that they considered 4 Q. Page 20. study design heterogeneity and found All right. On Page 20 in 5 5 6 none. Because I don't remember seeing 6 this paragraph here. Do you see where I am in the -- in the Taher paper? 7 that. I'd like to see the paper if you 7 have it. But I don't remember them even 8 A. Yes, I see it. 8 O. Or, sorry, Health Canada. 9 addressing it. 9 10 He goes into act -- other 10 It indicates -- I'll -- I'll 11 lesser important areas of heterogeneity 11 start with the first given. like the percentage that looked at mode "Given the long latency 12 12 13 of exposure and things like that. 13 period of ovarian cancer, the follow-up So if one doesn't even periods may not have been sufficient to 14 14 15 15 capture all cases for the individual mention it, and one mentions it and says we found heterogeneity, I don't assume 16 cohort studies. 16 17 that the one who didn't even mention it, 17 "Also, given the rarity of 18 looked at it, found heterogeneity and 18 ovarian cancer, many of the available human studies may not be sufficiently just decided not to mention it. I'm 19 19 20 assuming they didn't think about it. 20 powered to detect a low odds ratio." 21 Q. What did the Taher paper say 21 Do you agree with both of about heterogeneity? Was there a 22 22 those statements? 23 significant overlap in the Taher paper? 23 A. No. 24 A. I don't remember -- I don't 24 Q. Which ones do you --

PageID: 193805 Kevin Holcomb, M.D.

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here is long latency in these nations it should be the same. But tead it's taken as a given.	21 22	large enough to detect the 20 to
nations it should be the same. But tead it's taken as a given.	1	
		30 percent increased risk. And as you
	23	said, I keep going back to Berge, because
Given the long latency of	24	they say yes, there was enough.
Page 327		Page 329
arian cancer. Latency to what?	1	If you add those three
tency from what incident? There	2	cohort studies, you had 99 percent chance
ency from	3	of picking up what was in the
	4	case-control studies, but yet Taher
	5	says or, sorry, Health Canada says
	6	that there may not have been enough. But
•	7	they and then they they quote Narod
•	8	as opposed to quoting there's no
A. I I'm just letting	9	mention of Berge saying that there was
-	1	enough. There's just Narod's op Ed
	1	opinion in 2016 which was not based on a
· ·	12	single study. So I didn't so I didn't
form. And were you done with your	13	agree with either one.
prior answer?	14	Q. So the Narod paper is
		talking in the abstract about the design
didn't go through the other part.	1	of cohort studies, and that you need a
And then but going back	1	sufficient number to detect a low odds
to the other one where they say	18	ratio.
	1	The Berge study is talking
Q. Sorry, Doctor, can I	20	about their study, his study, right?
terrupt you?	21	A. Berge was a meta-analysis.
	22	Q. Yeah. And and they're
Do you have an opinion	23	talking about, for purposes of power,
	24	that study. Narod is talking about in
	Q of ovarian cancer? A. I'm saying that you MS. CURRY: Object to the form. And were you done with your prior answer? THE WITNESS: No. Because I didn't go through the other part. And then but going back to the other one where they say Y MS. GARBER: Q. Sorry, Doctor, can I terrupt you? Do you have an opinion	A. Excuse me? Q. Do you have an opinion of e years of latency A. I I'm just letting Q of ovarian cancer? A. I'm saying that you MS. CURRY: Object to the form. And were you done with your prior answer? THE WITNESS: No. Because I didn't go through the other part. And then but going back to the other one where they say Y MS. GARBER: Q. Sorry, Doctor, can I terrupt you? Do you have an opinion

PageID: 193806 Kevin Holcomb, M.D.

	Page 330		Page 332
1	general when you look at cohort studies,	1	assumptions get made over and over
2	they have to have sufficient number of	2	and over of what the latency
3	of study participants or you are not	3	period is. And you asked me then,
4	going to detect a small risk.	4	do I have an opinion on what the
5	A. In the same way that I	5	latency period is.
6	wouldn't look at	6	And I can say that if you
7	MS. CURRY: Object to the	7	had heavy occupational exposure
8	form.	8	to I'll let you finish.
9	THE WITNESS:	9	BY MS. GARBER:
10	occupational exposure to asbestos	10	Q. No. Carry on. Carry on.
11	to answer the question of what	11	A. No, I'll let you finish.
12	talc does when dusted on the	12	Q. I can do two things at once.
13	perineum, I wouldn't stick on a	13	I can multitask. I'm listening. I'm
14	hypothetical statement by Narod	14	listening.
15	when you actually have data from	15	A. All right. So if you if
16	women in the clinical scenario	16	you're asking me what is the latency
17	that you're questioning, do you or	17	period for someone making gas masks in a
18	do you not have the power to	18	factory, I would say it's probably
19	detect the level of the low	19	somewhere around 20 years, maybe
20	level of effect.	20	30 years. Hiroshima, you know, maybe 10
21	They are admitting it's a	21	to 20 years. That's the question.
22	low level. They are saying that	22	Q. So you have testified in a
23	maybe it wasn't enough. But I'm	23	prior case that ovarian cancer has a long
24	saying there's a study out there	24	latency; is that true?
	Page 331		Page 333
1	that says it was enough and gives	1	MS. CURRY: Object to the
2	the explanation with the numbers.	2	form.
3	It's not it's not cited	3	THE WITNESS: In those
4	here.	4	situations.
5	BY MS. GARBER:	5	BY MS. GARBER:
6	Q. Doctor, you recognize that	6	Q. Yeah. All right.
7	Health Canada is recognizing that the	7	And you have testified that
8	latency for development of ovarian cancer	8	it can be as long as 20 to 40 years,
9	is an important issue in the cohort	9	correct?
10	designs, right?	10	A. It's possible, yes. Based
11	MS. CURRY: Object to the	11	on the extrapolations I just mentioned.
12	form.	12	Q. And you're aware of the
13	THE WITNESS: I'm I'm not	13	Purdie study from 2003 that indicated the
14	requesting that. I'm questioning	14	latency as likely 30 to 40 years,
15	what is the latency from. If you	15	correct?
16	assume that talc causes ovarian	16	A. Can you show me Purdie study
17	cancer, what is the latency for	17	and I can see what they're relying on
18	talc causing ovarian cancer?	18	Q. Sure.
19	No one knows. So any	19	A and see what citation
エノ	extrapolation is an extrapolation	20	they use, or if it's cited at all.
20	extrapolation is an extrapolation		
	from another situation like an	21	(Document marked for
20		21 22	(Document marked for identification as Exhibit
20 21	from another situation like an		*

PageID: 193807
Kevin Holcomb, M.D.

Page 334 Page 336 1 Q. Let's mark as Exhibit 18. 1 bit it says -- couple lines, it says, 2 The Purdie 2003 study. 2 "Thus, the latency period of more advanced malignant epithelial ovarian 3 3 Doctor, if you turn to Page cancer could be estimated to be 4 231. Following Footnote 23, it reads, 4 "With regard to the latency" --5 5 approximately 30 to 40 years." 6 A. "This time frame is 6 A. I'm sorry. 231. Following -- you said --7 consistent with data from the Hiroshima 7 8 Q. Here. Look up here, Doctor. 8 cohort." 9 A. Hold on one second. 9 Yes. They're doing what I 10 10 Q. The authors state, "It is said. They're extrapolating from an atomic bomb victim to figure out what the 11 likely that ovarian cancer has a 11 latency would be for somebody putting 12 reasonable" --12 talcum powder in their underwear. 13 A. I'm sorry. Can you -- I 13 Q. And, Doctor, do you have any 14 really want to read along with you. I 14 just don't see where you are. You said 15 reason or basis -- strike that. 15 16 231 is the page we're on? 16 Do you have any basis to claim that the latency period would be 17 Q. Yes. 17 A. Okay. Left? Right? any different for talcum powder exposure 18 18 19 Q. Left-hand column. 19 and development of ovarian cancer? A. Okay. Top of the page, 20 A. In the totality of my review 20 21 middle of the page, bottom? of the literature, I don't see sufficient 21 Q. Right here. "It is likely evidence to consider that talcum powder 2.2 2.2 23 that ovarian cancer has a reasonably long 23 even causes ovarian cancer. So I don't latency period between initiation and 24 24 have a carcinogen to start off with to Page 335 Page 337 1 manifestation of established disease, and 1 start estimating latency. 2 this is exacerbated by unusually late 2 What they're saying is, if 3 clinical detection of the disease." 3 you extrapolate from the few situations 4 that we know that cause ovarian cancer, A. And that --4 5 they have a long latency. So the 5 Q. And you agree -- you 6 disagree with that? 6 assumption is, well, this must have a 7 MS. CURRY: Object to the 7 long latency period too. 8 form. I think you said unusually. They've given no citation 8 9 The word is usually. 9 why that it is likely. It's just, well, 10 BY MS. GARBER: 10 it happened here; it must be the same 11 11 Q. Do you disagree with that 12 statement? 12 Q. So let's talk about this. 13 A. What I -- I was curious to 13 You're a study designer. And you really see what the citation was. I would say want to find out if talcum powder 14 14 that in other situations with a known 15 exposure causes ovarian cancer. And you 15 carcinogen, like the radiation from an 16 know that there's all this data out here 16 17 atomic bomb or heavy occupational 17 that ovarian cancer has a long latency. 18 exposure, in those situations there is a 18 A. It's all this data out here? long latency. Q. Yeah. I'm giving you a 19 19 20 Q. And so, Doctor --20 hypothetical. There's data from 21 A. Here there's no citations. 21 radiation and other exposures. Okay? 22 So I'm not sure what the statement is 22 A. Okay. Q. And the latency period is 23 based on. 2.3 24 Q. So, Doctor, if you go down a 24 about 20 to 40 years. Are you going to

Page 86 of 190

PageID: 193808 Kevin Holcomb, M.D.

	Page 338		Page 340
1	design a study that is going to follow	1	ovarian cancer is the biologic
2	women 10 or six or 15 years when you know	2	plausibility and where it falls
3	that potentially it could be 20,	3	apart on dose-response.
4	40 years? You're not going to detect all	4	So I'm saying, just because
5	the risk, are you?	5	you followed somebody from
6	MS. CURRY: Object to the	6	12 years, doesn't mean that they
7	form.	7	started using talc the day before
8	THE WITNESS: I think	8	she signed consent.
9	there's a misconception between	9	And so no, if you're talking
10	how long you follow a patient and	10	about a behavior that likely
11	latency.	11	starts in the 20s, and you're
12	•	12	
13	Latency doesn't start when	13	trying to design a study that's
14	you designed a study and she	14	enrolling women who started at 50,
	signed the consent form. Latency		yeah, 12 years should be enough.
15 16	started from exposure to	15 16	BY MS. GARBER:
16	development of a cancer.		Q. Doctor, in the studies
17	So if somebody, let's say,	17	themselves, do they indicate when the
18	on the woman's health initiative,	18	women started using the talc, the age at
19	is 55 at the time that she goes	19	which they started using the talc?
20	on, and you're trying to convince	20	MS. CURRY: Object to the
21	me earlier that this is this	21	form.
22	habitual thing that she does, that	22	THE WITNESS: Again, no. I
23	she doesn't even think about it.	23	am referring to what Dr. Cramer
24	Cramer 2016 says she likely	24	believes.
	Page 339		
	Page 339		Page 341
1	started in her 20s. She may be	1	Page 341 BY MS. GARBER:
1 2		1 2	
	started in her 20s. She may be	1	BY MS. GARBER:
2	started in her 20s. She may be decades in by the time that you're	2	BY MS. GARBER: Q. You're making assumptions
2	started in her 20s. She may be decades in by the time that you're following her.	2 3	BY MS. GARBER: Q. You're making assumptions based on one given study
2 3 4	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been	2 3 4	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection.
2 3 4 5	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then	2 3 4 5	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER:
2 3 4 5 6	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then you follow them for another 12, or	2 3 4 5 6	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER: Q as to when the women were
2 3 4 5 6 7	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then you follow them for another 12, or in the case of Gates, they were	2 3 4 5 6 7	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER: Q as to when the women were exposed to talc. Isn't that true?
2 3 4 5 6 7 8	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then you follow them for another 12, or in the case of Gates, they were followed for 24 years, and they showed even women who had greater	2 3 4 5 6 7 8	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER: Q as to when the women were exposed to talc. Isn't that true? MS. CURRY: Object to the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then you follow them for another 12, or in the case of Gates, they were followed for 24 years, and they showed even women who had greater than 20 years' exposure didn't have an increased risk. The other problem with this concept that you're having, like you're missing the latency, you would expect that even in the studies that are showing an effect, that you should be able to show a dose-response curve with duration of use. And it's an inconsistent thing. And all the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER: Q as to when the women were exposed to talc. Isn't that true? MS. CURRY: Object to the form. THE WITNESS: Honest no. Honestly it's it's also personal experience with just people in my family who have used talc. It's been it hasn't been my experience. I I don't know anybody BY MS. GARBER: Q. That's not scientific, Doctor, is it? A. It's not. No. But you
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then you follow them for another 12, or in the case of Gates, they were followed for 24 years, and they showed even women who had greater than 20 years' exposure didn't have an increased risk. The other problem with this concept that you're having, like you're missing the latency, you would expect that even in the studies that are showing an effect, that you should be able to show a dose-response curve with duration of use. And it's an inconsistent thing. And all the data, it's inconsistent. There's one of the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER: Q as to when the women were exposed to talc. Isn't that true? MS. CURRY: Object to the form. THE WITNESS: Honest no. Honestly it's it's also personal experience with just people in my family who have used talc. It's been it hasn't been my experience. I I don't know anybody BY MS. GARBER: Q. That's not scientific, Doctor, is it? A. It's not. No. But you asked me what it's based on. I'm saying I don't know anybody who starts using
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	started in her 20s. She may be decades in by the time that you're following her. So if somebody has been using talc for 20 years and then you follow them for another 12, or in the case of Gates, they were followed for 24 years, and they showed even women who had greater than 20 years' exposure didn't have an increased risk. The other problem with this concept that you're having, like you're missing the latency, you would expect that even in the studies that are showing an effect, that you should be able to show a dose-response curve with duration of use. And it's an inconsistent thing. And all the data, it's inconsistent.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MS. GARBER: Q. You're making assumptions based on one given study MS. CURRY: Objection. BY MS. GARBER: Q as to when the women were exposed to talc. Isn't that true? MS. CURRY: Object to the form. THE WITNESS: Honest no. Honestly it's it's also personal experience with just people in my family who have used talc. It's been it hasn't been my experience. I I don't know anybody BY MS. GARBER: Q. That's not scientific, Doctor, is it? A. It's not. No. But you asked me what it's based on. I'm saying

	Page 342		Page 344
1	Q. Okay. And if you were going	1	Q. Doctor, I'm going to mark
2	to take my history if I were one of your	2	the Gertig 2000 study
3	patients and you wanted to find out about	3	(Document marked for
4	my risk for developing lung cancer, you	4	identification as Exhibit
5	wanted to find out about my smoking	5	Holcomb-19.)
6	history, ask me what questions you	6	BY MS. GARBER:
7	would and tell me what questions you	7	Q as I'm sorry as
8	would ask me.	8	Exhibit 19.
9	A. I would ask	9	Doctor, a study limitation
10	MS. CURRY: Object to the	10	of the Nurses' Health Study is that the
11	form.	11	authors only captured talcum powder
12	BY MS. GARBER:	12	exposure one time in 1982 via
13	Q. About my exposure?	13	questionnaire, right?
14	A. I would ask when you started	14	A. It's true.
15	smoking cigarettes. How many cigarettes	15	Q. Another limitation is the
16	a day do you smoke.	16	study's exposure metric only captured
17	Q. What else?	17	frequency of use, and not cumulative use,
18	A. Have you been exposed to	18	correct?
19	asbestos. I know that's a co-carcinogen.	19	MS. CURRY: Object to the
20	Things like that.	20	form.
21	Q. So when I started.	21	THE WITNESS: Yes.
22	A. Mm-hmm.	22	BY MS. GARBER:
23	Q. And how	23	Q. And Table 2 shows that the
24	A. Do you still smoke today?	24	talc use in the perineum is never less
	Page 343		
	rage 343		Page 345
1	Q how frequently I smoke?	1	Page 345 than one week, one to one to six
1 2	Q how frequently I smoke?A. Mm-hmm.	1 2	
	Q how frequently I smoke?		than one week, one to one to six sorry. Less than one time per week,
2	Q how frequently I smoke?A. Mm-hmm.Q. And so that's a two-sided metric, right, frequency and duration.	2	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily,
2 3	 Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. 	2 3 4 5	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding?
2 3 4 5 6	 Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important 	2 3 4 5 6	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes.
2 3 4 5	 Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? 	2 3 4 5	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate
2 3 4 5 6 7 8	 Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the 	2 3 4 5 6 7 8	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by
2 3 4 5 6 7 8	 Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. 	2 3 4 5 6 7 8	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the
2 3 4 5 6 7 8 9	 Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: 	2 3 4 5 6 7 8 9	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct?
2 3 4 5 6 7 8 9 10	Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right?	2 3 4 5 6 7 8 9 10 11	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the
2 3 4 5 6 7 8 9 10 11 12	Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the	2 3 4 5 6 7 8 9 10 11 12	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form.
2 3 4 5 6 7 8 9 10 11 12 13	 Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. 	2 3 4 5 6 7 8 9 10 11 12 13	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's	2 3 4 5 6 7 8 9 10 11 12 13 14 15	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break. THE VIDEOGRAPHER: Okay.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the assessment was only made in 1982, many of
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break. THE VIDEOGRAPHER: Okay. Stand by, please. The time is 3:28 p.m. Off the record. (Short break.) THE VIDEOGRAPHER: Okay. We are back on the record. The time	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the assessment was only made in 1982, many of the women may have stopped using talcum powder products over the study period. Do you agree with that? A. Not likely. Q. Do you agree that there were
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break. THE VIDEOGRAPHER: Okay. Stand by, please. The time is 3:28 p.m. Off the record. (Short break.) THE VIDEOGRAPHER: Okay. We are back on the record. The time is 3:55 p.m.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the assessment was only made in 1982, many of the women may have stopped using talcum powder products over the study period. Do you agree with that? A. Not likely. Q. Do you agree that there were only 78,630 women who formed the cohort
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q how frequently I smoke? A. Mm-hmm. Q. And so that's a two-sided metric, right, frequency and duration. A. Right. Q. Right? And that's important to determine the true risk? MS. CURRY: Object to the form. BY MS. GARBER: Q. Right? MS. CURRY: Object to the form. THE WITNESS: That's true. MS. GARBER: Okay. Let's take a break. THE VIDEOGRAPHER: Okay. Stand by, please. The time is 3:28 p.m. Off the record. (Short break.) THE VIDEOGRAPHER: Okay. We are back on the record. The time	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	than one week, one to one to six sorry. Less than one time per week, one to six times per week, and daily, correct, is that your understanding? A. Yes. Q. And an adequate dose-response cannot be determined by just measuring frequency without the length of use, correct? MS. CURRY: Object to the form. BY MS. GARBER: Q. Do you agree with that? A. No, I don't agree. Q. Okay. Because the assessment was only made in 1982, many of the women may have stopped using talcum powder products over the study period. Do you agree with that? A. Not likely. Q. Do you agree that there were

PageID: 193810 Kevin Holcomb, M.D.

	Page 346		Page 348
1	A. Yes.	1	under the multivariant relative risk,
2	Q. That's a far cry from the	2	right?
3	requisite 200 of the Narod study,	3	A. Yes. Earlier you had said
4	correct?	4	reference. So yes. It's 1.09.
5	MS. CURRY: Object to the	5	Q. That's an elevated risk,
6	form.	6	right?
7	THE WITNESS: I've already	7	THE VIDEOGRAPHER: Can you
8	addressed that in the past.	8	give me one second. Sorry. Just
9	BY MS. GARBER:	9	lost power in my camera for some
10	Q. All right. You didn't	10	reason.
11	and didn't you testify in the Ingham case	11	Stand by. The time is
12	that we don't know if there was a proper	12	3:59 p.m. Off the record.
13	control group because we don't know if	13	(Brief pause.)
14	the control group was exposed to talcum	14	THE VIDEOGRAPHER: Okay. We
15	powder products via diapering?	15	are back on the record. The time
16	MS. CURRY: Object to the	16	is 4:00 p.m.
17	form.	17	BY MS. GARBER:
18	THE WITNESS: You'd have to	18	Q. And, Doctor, before that
19	show me my	19	break, I was just asking you about ever
20	BY MS. GARBER:	20	use of perineal talc ever perineal
21	Q. You don't recall testifying	21	talc use. And I asked you, is a
22	about that?	22	multivariant relative risk 1.09 with a
23	A. We talked I'd be happy to	23	confidence interval of 0.86 to 1.37. And
24	read through it again. I don't have an	24	you agreed that that's what it is,
			you agreed that that's what to is,
	Page 347		Page 349
1	independent memory of that.	1	correct?
2	Q. All right. The Gertig paper	2	A. Yes.
3	provided a result for ever use of talcum	3	Q. That's an elevated risk,
4	powder products on the perineum for	4	correct?
5	ovarian cancer at Table 2. Do you recall	5	MS. CURRY: Object to the
6	that?	6	form.
7	A. Yes.	7	THE WITNESS: No. That's
8	Q. And I'll just show you	8	you can't say for sure whether
9	Table 2 here. Table 2, ever perineal	9	that's an elevated risk. Because
10	talc use, yes, no.	10	the true risk estimate is
11	Correct?	11	somewhere between having a 14
12	A. Correct.	12	yeah, 14 percent reduction in risk
13	Q. All right. And the point	13	to a 37 percent increase in risk.
14	estimate for ever use of talc, talc	14	And the true risk is somewhere in
15	powder products and EOC was 1.9 with a	15	there. Where exactly the true
16	confidence interval of 0.86 to 1.37; is	16	risk estimate I'm not sure.
17	that correct?	17	BY MS. GARBER:
18	A. No. The reference is by	18	Q. The point estimate, the
19	Definition 1.	19	point estimate is elevated at 1.09, true?
20	Q. The ever use.	20	MS. CURRY: Object to the
21	A. I'm sorry.	21	form.
22	Q. The ever use	22	THE WITNESS: The point
23	A. Yes.	23	estimate is elevated, yes.
		1	
24	Q point estimate was 0.09	24	BY MS. GARBER:

Kevin Holcomb, M.D.

Page 350 Page 352 1 Q. And the follow-up study 1 limitations that I just went through with 2 period was just 14 years, correct, here 2 you are cited or addressed in your expert 3 at Table 2, it sets forth a follow-up 3 report; is that true? 4 4 A. That's true. I did not period. 5 If you look here at the 5 consider that a -- while a potential 6 table, you see the study period? 6 study limitation, I sort of -- I looked 7 A. Okay --7 at the literature in totality, and other 8 Q. It's 14 years, right? papers suggested that while they could 8 9 A. One second. I'm just doing 9 not account for it, it's very likely that the math. I went to public school. 10 this was a practice that began early in 10 Q. Okay. I went to a private 11 11 the women's lives. school. But I'm not good at math either. 12 12 And so for completeness' A. Yes, 14 years. 13 13 sake, they are mentioning this as a Q. Okay. And with regard to limitation. But the follow-up period, as 14 14 15 that follow-up period at Page 251, 15 I mentioned earlier, of 14 years would be Doctor, the authors note the limitation 16 16 too short to pick up a latency of in that they state, "In that regard, in 17 15 years if the woman just started using 17 18 the peer-reviewed paper" -talc the day she signed the consent. But 18 19 MS. CURRY: I'm sorry, where 19 if she had used talc for just three years 20 are you --20 before signing the consent, it would not have been a weakness. 21 THE WITNESS: I'm sorry, I 21 22 don't know where you're reading. 2.2 So I respect them mentioning 23 BY MS. GARBER: 23 this for completeness' sake. But the 24 Q. I'm reading at the top of likelihood of them having not enough time 24 Page 351 Page 353 1 251, right-hand column. The authors 1 for latency -- because latency again is 2 state, "Our relatively short follow-up 2 not follow-up time, it's exposure to 3 period may be inadequate to detect an 3 diagnosis -- I think it's unlikely that 4 association if the latency for 4 they would not have the latency if you extrapolated from an atomic bomb victim. 5 5 development of ovarian cancer is more 6 than 15 years." 6 Q. Did I ask you why those 7 7 aren't -- those study limitations aren't Did I read that correctly? 8 8 contained within your expert report? A. You read that correctly. A. No. You asked me if it was 9 Q. So the authors are noting 9 mentioned. And I was just explaining why 10 that study limitation, correct? 10 A. Yes, they did. 11 11 it wasn't. 12 Q. Also, at 251, the authors in 12 Q. Try to just answer my 13 the middle column note that there are 13 questions, if you can, Doctor. I really 14 several important study limitations, 14 appreciate it. correct? 15 The relative risk for ever 15 16 use of talcum powder products in serous 16 A. That's what it says, yes. 17 Q. The authors also note that 17 invasive ovarian cancer was elevated at they cannot determine the age at which 18 1.4 with a confidence interval of 1.02 to 18 women began using talc or the duration of 19 1.91, correct? 19 20 their use. That's what they say under 2.0 A. It depends on what type of 21 the heading of "Several Important 21 use you're talking about. Because strangely enough, in this study, for some 22 Limitations in Our Study," right? 22 reason, if you use talcum powder on your 2.3 A. Yes. 23 24 Q. Okay. None of those study 24 perineum, but you also used it on

PageID: 193812 Kevin Holcomb, M.D.

	Page 354		Page 356
1	sanitary napkins, an increased exposure,	1	So if Gates has 24 years of
2	the point estimates are actually	2	follow-up, I would look at Gates
3	protective, there's .89, of course	3	as the answer to this.
4	crossing one, and .90. So	4	So that's exactly what
5	Q. Doctor, what was my	5	happened in this situation. These
6	question?	6	same group of women followed years
7	A. You said ever use of what	7	later, closer to covering the
8	type.	8	latency that you were concerned
9	MS. CURRY: Did you complete	9	about, this risk went away.
10	your thought?	10	And so I don't think I would
11	BY MS. GARBER:	11	
			report twice on the same cohort of
12	Q. So, Doctor, you'll get a	12	patients.
13	chance to answer questions that counsel	13	MS. GARBER: Objection.
14	for Johnson & Johnson may want to ask	14	Motion to strike as nonresponsive.
15	you.	15	BY MS. GARBER:
16	My question was, is the odds	16	Q. Doctor, you didn't cite in
17	ratio for serous ovarian cancer 1.4 with	17	the four corners of your expert report
18	a confidence interval of 1.02 to 1.91?	18	that the Gertig study showed an increased
19	Is that what's reported in the study?	19	risk in serous ovarian cancer, did you?
20	A. I'm sorry. One second,	20	MS. CURRY: Object to the
21	ma'am. For multivariate, it's 1.4, yes.	21	form.
22	Q. Okay. And serous ovarian	22	THE WITNESS: I just
23	cancer, as you testified several hours	23	explained why I made the general
24	ago, is a type of ovarian cancer,	24	statement
	Page 355		Page 357
1	correct?	1	BY MS. GARBER:
2	A. The most predominate type,	2	Q. I didn't ask you why. My
3	yes.	3	question was very clear and precise.
4	Q. Okay. And so when you say	4	MS. SHARKO: You can't
5	in your expert report that none of the	5	interrupt him.
6	cohort studies showed an increased risk	6	BY MS. GARBER:
7	in ovarian cancer, that was an error,	7	Q. Did you did you in the
8	right? Because	8	
	C		four corners of your report state what
9	A. No.	9	four corners of your report state what the results were for serous ovarian
			the results were for serous ovarian
10	Q serous ovarian cancer is	10	the results were for serous ovarian cancer in Gertig, yes or no?
10 11	Q serous ovarian cancer is a form of ovarian cancer, true?	10 11	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see.
10 11 12	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the	10 11 12	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it.
10 11 12 13	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form.	10 11 12 13	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at
10 11 12 13 14	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't	10 11 12 13 14	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010
10 11 12 13 14 15	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I	10 11 12 13 14 15	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort
10 11 12 13 14 15	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same	10 11 12 13 14 15 16	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between
10 11 12 13 14 15 16	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of	10 11 12 13 14 15 16 17	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian
10 11 12 13 14 15 16 17	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take	10 11 12 13 14 15 16 17 18	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian cancer?
10 11 12 13 14 15 16 17 18	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take a lot of issue with, and one with	10 11 12 13 14 15 16 17 18	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian cancer? A. Yes.
10 11 12 13 14 15 16 17 18 19 20	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take a lot of issue with, and one with 24 years follow-up, I was under	10 11 12 13 14 15 16 17 18 19 20	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian cancer? A. Yes. Q. What is your basis for that?
10 11 12 13 14 15 16 17 18 19 20 21	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take a lot of issue with, and one with 24 years follow-up, I was under impression with your criticisms of	10 11 12 13 14 15 16 17 18 19 20 21	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian cancer? A. Yes. Q. What is your basis for that? A. Pretty much as I stated in
10 11 12 13 14 15 16 17 18 19 20 21 22	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take a lot of issue with, and one with 24 years follow-up, I was under impression with your criticisms of the study that the one with the	10 11 12 13 14 15 16 17 18 19 20 21 22	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian cancer? A. Yes. Q. What is your basis for that? A. Pretty much as I stated in the report, that you said that I didn't
10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take a lot of issue with, and one with 24 years follow-up, I was under impression with your criticisms of the study that the one with the longer follow-up would be	10 11 12 13 14 15 16 17 18 19 20 21 22 23	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian cancer? A. Yes. Q. What is your basis for that? A. Pretty much as I stated in the report, that you said that I didn't state, is that there was a modest
10 11 12 13 14 15 16 17 18 19 20 21 22	Q serous ovarian cancer is a form of ovarian cancer, true? MS. CURRY: Object to the form. THE WITNESS: No. I don't see that as an error, because if I have two studies of the same population, one with 14 years of follow-up, which you seem to take a lot of issue with, and one with 24 years follow-up, I was under impression with your criticisms of the study that the one with the	10 11 12 13 14 15 16 17 18 19 20 21 22	the results were for serous ovarian cancer in Gertig, yes or no? A. Let me take a look and see. Yes, I did mention it. Q. And, Doctor, do you state at the top of Page 11 that the Gates 2010 reversed the finding of the only cohort study reporting the association between genital talc and epithelial ovarian cancer? A. Yes. Q. What is your basis for that? A. Pretty much as I stated in the report, that you said that I didn't

PageID: 193813 Kevin Holcomb, M.D.

			Page 360
1	ovarian cancer in the Gertig study, which	1	
2	<u> </u>	1	Q. In fact, there are
	was stated on the bottom of Page 10	2	epidemiological studies as recent as
3	clearly. And that I can read it to	3	2018, that use the Gertig study in their
4	you, "In 2010 Gates, et al."	4	meta-analysis, right, the Penninkilampi
5	Q. You don't have to read it,	5	for one?
6	Doctor. I can read it for myself. Let	6	A. That is true. And a
7	me withdraw that.	7	weakness of the study.
8	Doctor, did the Gates	8	Q. We're going to get to that.
9	authors state that their study reversed	9	I'm sure that's your opinion. But that
10	the findings of the Gertig 2000 study?	10	study relies on the Gertig study, in
11	MS. CURRY: Object to the	11	other words, if they are including it in
12	form.	12	their meta-analysis, surely those study
13	THE WITNESS: The results	13	authors aren't thinking that the results
14	did, yes.	14	are reversed by Gates, correct?
15	BY MS. GARBER:	15	A. And
16	Q. Did the study authors say	16	MS. CURRY: Object to the
17	our data reversed the findings, used that	17	form.
18	phrase, "reversed the findings" of the	18	THE WITNESS: and by not
19	Gertig study?	19	including Gates, they will come to
20	A. I'd have to read through the	20	a spurious result. They will
21	study to see if it was mentioned.	21	think that maybe a prospective
22	Q. Is it epidemiologically	22	study supports that there's an
23	sound to say, "My study reversed the	23	increased risk. Where if they had
24	findings of a prior study"?	24	done and this is what I was
21	inidings of a prior study		done and this is what I was
	Page 359		Page 361
1	MS. CURRY: Object to the	1	saying about meta-analysis.
2	form.	2	Not only do you have to
3	BY MS. GARBER:	3	worry about heterogeneity. And we
4	Q. Have you ever heard that	4	spent enough time talking about
5	done?	5	that. But selection of the
6	A. I use the term. So yes,	6	studies that go into your
7	I've heard it done.	7	meta-analysis are very, very
8	Q. It's your turn it's your	8	important. And one and
9	term?	9	selection bias is is a very
10	MS. CURRY: Object to the	10	important thing that you have to
11	form.	11	watch out for as well.
12	THE WITNESS: I use it in my	12	So the fact that
13	report, yes.	13	Penninkilampi, as late as that
14	BY MS. GARBER:	14	study just came out, was unable to
15	Q. Have you seen any other	15	figure out that that same cohort
16	study authors who say, in all of	16	had been followed for ten years
17	epidemiological literature that you've	17	longer, we strengthening the
18		18	
19	looked at, that says that the Gates 2010	19	study by increasing the follow-up
	study reversed the findings of the Gertig	1	time, all the criticisms you just
20	2000 study?	20	gave me about Gertig is now
21 22	A. I could not tell you that	21	strengthened in Gates, and yet you
フラ	out of all the epidemiologic studies that	22	choose to use the number from
	Tt 1 1 11 11 11 11 11 11 11 11 11 11 11 1		
23	I've read whether or not that term was	23	Gertig. I'd have to ask why would
	I've read whether or not that term was used.	23	Gertig. I'd have to ask why would somebody who's seeking the truth

PageID: 193814 Kevin Holcomb, M.D.

1		Page 362		Page 364
2 BY MS. GARBER: 3 Q. I'm going to show you some 4 data and see if we can figure that out 5 together. 6 You don't have any basis to 6 Conclude that the Penninkilampi authors 8 didn't know about the Gates 2010 data, 9 did you? 10 MS. CURRY: Object to the 11 form. 12 THE WITNESS: I'm saying 13 that I don't see in their 14 definitions, including the studies 15 that they included, the search 16 terms that they included, a reason 17 why they would negate Gates. 18 BY MS. GARBER: 19 Q. Do you know whether or not 10 the Taher authors included the Gertig or 11 the Gates study? 12 A. I believe they included 12 a that they are saying Gates shows a 12 possible increased risk of cancer in 13 their table, where and I'm talking 14 about on thethe can I pull out 15 That's since you bring it up? 16 Q. That's okay. We're going 17 to we're going to e we're going to	1	do that.	1	A. Correct.
data and see if we can figure that out to together. You don't have any basis to conclude that the Penninkilampi authors didn't know about the Gates 2010 data, did you? MS. CURRY: Object to the form. THE WITNESS: I'm saying that I don't see in their definitions, including the studies that they included, the search terms that they included, a reason why they would negate Gates. MS. CURRY: Object to form. THE WITNESS: I'm saying that I don't see in their definitions, including the studies that they included, a reason why they would negate Gates. MS. CURRY: Object to form. THE WITNESS: You mean the same women that were followed in — in Gertig, by the time they saw them ten years later they were younger? MS. CURRY: Object to form. THE WITNESS: You mean the same women that were followed in — in Gertig, by the time they saw them ten years later they were younger? MS. CURRY: Object to form. THE WITNESS: You mean the same women that were followed in — in Gertig, by the time they saw them ten years later they were younger? MS. CURRY: Object to form. THE WITNESS: You mean the same women that were followed in — in Gertig, by the time they saw them ten years later they were younger? MS. CURRY: Object to form. THE WITNESS: You mean the same women that were followed in — in Gertig, by the time they saw them ten years later they were younger? MS. CURRY: Object to form. THE WITNESS: Wore mean the same women that were followed in — in Gertig, by the time they saw them ten years later they were younger? MS. CURRY: Object to form. THE WITNESS: A Between Gertig and Gates. MS. CURRY: Object to form. THE WITNESS: May in the same women that were followed in — in Gertig, by the time they saw them ten years later they were younger? MS. CURRY: Object to form. THE WITNESS: May in the same women in the Gertig study in the Gertig study in the Gertig study in the Gertig study I in 1989 and mogst in the Gertig study I in 1989 and mogst in 1976 and the North of the MS. CURRY: Object to form. THE WITNESS: MS. CARBER: Q.				
data and see if we can figure that out together. You don't have any basis to conclude that the Penninkilampi authors didn't know about the Gates 2010 data, didnyon? MS. CURRY: Object to the form. The WITNESS: I'm saying that I don't see in their definitions, including the studies that they included, the search terms that they included, a reason why they would negate Gates. BY MS. GARBER: CO. Do you know whether or not the Taher authors included the Gertig or the Gates study? A. I believe they included agarder that was where I was telling you age of the two cohorts? A. I believe they included agarder of the Gates study? A. I believe they included agarder that was where I was telling you age of the two cohorts? A. Between Gertig and Gates. MS. CURRY: Not I think Page 363 THE WITNESS: I'm a I'm a little confused by your question. BY MS. GARBER: A. Okay. Co. That's okay. We're going to ope there in a minute A. Okay. Co we're going to get there in a minute A. Okay. Co we're going to get there in a minute A. Okay. Co we're going to get there in a minute A. Okay. Co we're going to get there in a minute A. Okay. Co we're going to get there in a minute A. Okay. Co we're going to get there in a minute A. Okay. Co we're going to get there in a minute A. Okay. Co we're going to get there in a minute A. Okay. Co we're going to get there in a minute A. Okay. Co we're followed the Gertig or the Gates study were younger than the women in the Gertig study? MS. CURRY: Object to the form. THE WITNESS: You mean the same women that were followed in the Gates study were wounger than the women in the Gertig study? THE WITNESS: Our mean the same women that were object to get from the coho				
5 together. 6 You don't have any basis to 7 conclude that the Penninkilampi authors 8 didn't know about the Gates 2010 data, 9 did you? 10 MS. CURRY: Object to the 11 form. 12 THE WITNESS: I'm saying 13 that I don't see in their 14 definitions, including the studies 15 that they included, a reason 16 terms that they included, a reason 17 why they would negate Gates. 18 BY MS. GARBER: 19 Q. Do you know whether or not 19 the Taher authors included the Gertig or 20 the Taher authors included the Gertig or 21 the Gates study? 22 A. I believe they included 23 both. But if I can look at it. Because 24 earlier that was where I was telling you 25 The with they are saying Gates shows a 26 possible increased risk of cancer in 27 the the there in a minute			l	
Fage 363 Vou don't have any basis to conclude that the Penninkilampi authors did you? Note that the Penninkilampi authors did you? Note that the Penninkilampi authors did you? Note that I don't see in their definitions, including the studies that they included, the search terms that they included, a reason why they would negate Gates. Note The Taber authors included the Gertig or the Taher authors included the Gertig or the Taher authors included earlier that was where I was telling you was a possible increased risk of cancer in their table, where - and I'm talking about on the the can I pull out Taher since you bring it up? One The Taher since you bring it up? One The Taher since you bring it up? Note The Taher since you bring it up?		<u>C</u>	l	•
7 conclude that the Penninkilampi authors didn't know about the Gates 2010 data, did you? 9 did you? 10 MS. CURRY: Object to the 11 form. 11 form. 12 THE WITNESS: I'm saying 12 definitions, including the studies 14 that they included, the search 15 that they included, a reason 16 terms that they included, a reason 17 why they would negate Gates. 18 BY MS. GARBER: 18 BY MS. GARBER: 19 Q. Do you know whether or not 18 the Gates study? 20 the Taher authors included the Gertig or 21 the Gates study? 21 A. I believe they included 22 aboth. But if I can look at it. Because 23 both. But if I can look at it. Because 24 earlier that was where I was telling you 24 that they are saying Gates shows a 24 possible increased risk of cancer in 3 their table, where and I'm talking 4 about on the the can I pull out 5 Taher since you bring it up? 26 Q. That's okay. We're going 7 to we're going to get there in a 28 minute 29 A. Okay. 20 Q when I'm done with these 21 cohorts, so 21 All right. Let's let's 21 talk about Gates 2010. 21 talk about Gates 2010. 22 All right. Let's let's 24 dentification as Exhibit 41 Holcomb-20.) 16 Gates 2010 publication: 29 Doctor, the Gates 2010 article was a publication of the 21 follow-up to the Nurses' Health Study I article was a publication of the 22 follow-up to the Nurses' Health Study I at that was published as Gertig in the year 24 Nurses' Health Study I in 1989 amongst			l	
didn't know about the Gates 2010 data, did you? MS. CURRY: Object to the form. THE WITNESS: I'm saying that I don't see in their definitions, including the studies that they included, the search terms that they included, a reason why they would negate Gates. BY MS. GARBER: Q. Do you know whether or not the Taher authors included the Gertig or the Gates study? A. I believe they included aearlier that was where I was telling you Page 363 that they are saying Gates shows a possible increased risk of cancer in their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking their table, where — and I'm talking about on the — the — can I pull out their table, where — and I'm talking their table, where — and I'm talking their table, where — and I'm talking the Table about on the — the — can I pull out their table, where — and I'm talking their table, where — and I'm talking the Table about on the — the — can I pull out their table, where — and I'm talking the Table about on the — the — can I pull out their table, where — and I'm talking the Table about on the — the — can I		-	1	
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to we're going to get there in a minute MS. CURRY: Object to the form. A. Okay. Q when I'm done with these 10 BY MS. GARBER: 11 cohorts, so 11 Q. Maybe I'll show you All right. Let's let's 12 A. Yes. 13 talk about Gates 2010. 14 (Document marked for 15 identification as Exhibit 16 Holcomb-20.) 17 BY MS. GARBER: 18 Q. I'll mark as Exhibit 20, the 19 Gates 2010 publication: 19 Gates 2010 publication: 10 Doctor, the Gates 2010 20 Q. On the first page. Do you 21 article was a publication of the 22 follow-up to the Nurses' Health Study I 23 that was published as Gertig in the year To min the Gertig study? MS. CURRY: Object to the form. BY MS. GARBER: Q. Maybe I'll show you A. Yes. A. Yes. A. Because I don't need to read through. A. Because I don't need to read through. Q. Doctor, if you could look right here? Q. On the first page. Do you see where it says, "The Nurses' Health Study I in 1989 amongst				
8 minute 9 A. Okay. 10 Q when I'm done with these 11 cohorts, so 11 Q. Maybe I'll show you 12 All right. Let's let's 13 talk about Gates 2010. 14 (Document marked for 15 identification as Exhibit 16 Holcomb-20.) 17 BY MS. GARBER: 18 Q. I'll mark as Exhibit 20, the 19 Gates 2010 publication: 19 Gates 2010 publication: 10 BY MS. GARBER: 11 Q. Maybe I'll show you 12 A. Yes. 13 Q and then you can maybe help me understand. 14 help me understand. 15 through. 16 through. 17 Q. Doctor, if you could look 18 right here? 19 Gates 2010 publication: 19 A. Sure. 20 Doctor, the Gates 2010 20 Q. On the first page. Do you 21 article was a publication of the 22 follow-up to the Nurses' Health Study I 23 that was published as Gertig in the year 24 Nurses' Health Study II in 1989 amongst				
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12 All right. Let's let's 13 talk about Gates 2010. 14 (Document marked for 15 identification as Exhibit 16 Holcomb-20.) 17 BY MS. GARBER: 18 Q. I'll mark as Exhibit 20, the 19 Gates 2010 publication: 20 Doctor, the Gates 2010 21 article was a publication of the 22 follow-up to the Nurses' Health Study I 23 talk about Gates 2010 20 Q and then you can maybe 14 help me understand. 15 A. Because I don't need to read 16 through. 17 Q. Doctor, if you could look 18 right here? 19 A. Sure. 20 Q. On the first page. Do you 21 see where it says, "The Nurses' Health 22 Study was established in 1976 and the 23 Nurses' Health Study II in 1989 amongst			1	
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14 (Document marked for 14 help me understand. 15 identification as Exhibit 15 A. Because I don't need to read 16 Holcomb-20.) 16 through. 17 BY MS. GARBER: 17 Q. Doctor, if you could look 18 Q. I'll mark as Exhibit 20, the 18 right here? 19 Gates 2010 publication: 19 A. Sure. 20 Doctor, the Gates 2010 20 Q. On the first page. Do you 21 article was a publication of the 21 see where it says, "The Nurses' Health 22 follow-up to the Nurses' Health Study I 22 Study was established in 1976 and the 23 that was published as Gertig in the year 23 Nurses' Health Study II in 1989 amongst		<u> </u>	l	
15 identification as Exhibit 16 Holcomb-20.) 17 BY MS. GARBER: 18 Q. I'll mark as Exhibit 20, the 19 Gates 2010 publication: 20 Doctor, the Gates 2010 21 article was a publication of the 22 follow-up to the Nurses' Health Study I 23 that was published as Gertig in the year 15 A. Because I don't need to read through. 16 through. 17 Q. Doctor, if you could look right here? 19 A. Sure. Q. On the first page. Do you see where it says, "The Nurses' Health Study II see where it says, "The Nurses' Health Study II Study was established in 1976 and the Nurses' Health Study II in 1989 amongst				The state of the s
16 Holcomb-20.) 17 BY MS. GARBER: 18 Q. I'll mark as Exhibit 20, the 19 Gates 2010 publication: 20 Doctor, the Gates 2010 21 article was a publication of the 22 follow-up to the Nurses' Health Study I 23 that was published as Gertig in the year 20 Holcomb-20.) 21 through. 22 Q. Doctor, if you could look right here? 23 Q. Doctor, if you could look right here? 24 Q. On the first page. Do you see where it says, "The Nurses' Health Study I Study was established in 1976 and the Nurses' Health Study II in 1989 amongst		•	l	•
17 Q. Doctor, if you could look 18 Q. I'll mark as Exhibit 20, the 19 Gates 2010 publication: 20 Doctor, the Gates 2010 21 article was a publication of the 22 follow-up to the Nurses' Health Study I 23 that was published as Gertig in the year 20 Doctor, the Gates 2010 21 Study was established in 1976 and the 22 Nurses' Health Study II in 1989 amongst			l	
Q. I'll mark as Exhibit 20, the Gates 2010 publication: Doctor, the Gates 2010 article was a publication of the follow-up to the Nurses' Health Study I that was published as Gertig in the year right here? A. Sure. Q. On the first page. Do you see where it says, "The Nurses' Health Study I Study was established in 1976 and the Nurses' Health Study II in 1989 amongst			l	e
Gates 2010 publication: Doctor, the Gates 2010 article was a publication of the follow-up to the Nurses' Health Study I that was published as Gertig in the year A. Sure. Q. On the first page. Do you see where it says, "The Nurses' Health Study I Study was established in 1976 and the Nurses' Health Study II in 1989 amongst			l	
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23 that was published as Gertig in the year 23 Nurses' Health Study II in 1989 amongst			l	
		follows up to the Name and Harlet Charlet		
21 2000, Correct: 21 121,700 0.3. Women 0.3. Telliate	22		l	•
	22 23	that was published as Gertig in the year	23	Nurses' Health Study II in 1989 amongst

PageID: 193815 Kevin Holcomb, M.D.

	kevin Hold		
	Page 366		Page 368
1	registered nurses aged 30 to 55 and	1	the metric is talc use greater than once
2	116,430 U.S. female registered nurses	2	a week versus less than once a week.
3	aged 25 to 42 respectively."	3	It's not ever never, correct?
4	So the two cohorts are	4	A. Correct.
5	different ages, are they not?	5	Q. That's a different metric
6	MS. CURRY: Object to the	6	from Gertig, right?
7	form.	7	A. Different metric, yes.
8	THE WITNESS: I'm sorry, I'm	8	Q. Thank you.
9	just taking my time to read	9	A. Valid valid change
10	through this again.	10	though.
11	BY MS. GARBER:	11	Q. Okay. But different
12	Q. Mm-hmm. Do you need time to	12	nonetheless, right?
13	study? We'll go off the record if you	13	A. Different and valid.
14	do.	14	Q. While the Gates 2010 study
15	A. No. That seems to be the	15	followed women for ten more years, the
16	case, yes.	16	follow-up is, in total, 26 years,
17	Q. Okay. Okay. In the Gates	17	correct?
18	study they were not asked questions about	18 19	A. Correct.
19	it about their talc use. Instead, the	20	Q. And we don't know when the
20	data about their talc exposure was	21	women were exposed, at what age they began using talc, correct, the study
21 22	carried over from the Gertig one-time	22	doesn't either study doesn't tell us
23	1982 questionnaire. Do you agree with that?	23	that, correct?
23 24		24	A. No.
21	A. It's my understanding that		71. 110.
	Page 367		Page 369
1	the NHSII population was not queried on	1	Q. And assuming the latency for
2	their use of talc because it was a	2	ovarian cancer is 30 to 40 years, that
3	one-time questionnaire in 1982.	3	study period would be inadequate to
4	So yes, the NHSII	4	accurately detect all of the women with
5	population is younger than the NHSI, but	5	ovarian cancer. Would you agree with
6	the question of the effect of talc on	6	that?
7	ovarian cancer was in only in patients	7	MS. CURRY: Object to the
8	that have been asked about ovarian cancer	8	form.
9	exposure.	9	THE WITNESS: No. I think
10	Q. Mm-hmm. And that's a study	10	if you if you can stretch to
11	limitation, correct?	11	the assumption that the latency
12	A. No.	12	for something that's not even
13	Q. Okay. In the Gates 2010 the	13	proven carcinogenic is the same as
14	authors provide no results for ever use	14	somebody working in a gas mask
15 16	of talcum powder product on the perineum	15	factory, I think you can
17	for ovarian cancer; is that true? A. No.	16 17	equally in fact, it takes less of a stretch to believe that the
18	A. No. Q. It's not true?	18	women didn't start tale use four
19	A. No. Hold on one second.	19	
20	Sorry. I have to go and find.	20	years before they went on the study, because that is not what
21	Q. Doctor, if you turn to	21	most people believe, even
22	Table 4	22	Dr. Cramer doesn't believe most
23	A. Yes.	23	women start that late in life.
24	Q Page 50. You see that	24	BY MS. GARBER:

PageID: 193816 Kevin Holcomb, M.D.

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	Page 370		Page 372
1	Q. But you have no data as to	1	directionality. And that's why I said
2	when the women in this study actually	2	it's obviously directionality positive.
3	started talc use, do you?	3	And if you're asking me is
4	A. No.	4	it a valid study, one that I would rely
5	Q. The Gates relative risk for	5	on with a degree of medical certainty, I
6	women who use talc greater than once a	6	would say no, because I'm one of those
7	week and serous ovarian cancer is 1.06	7	old school doctors who still believe that
8	with a confidence interval of 0.84 to	8	95 percent confidence intervals are
9	1.35. Do you agree with that?	9	important.
10	A. Sorry, one second. Yes.	10	Q. If the Court asked you if
11	Q. And again, under your	11	the Gertig serous ovarian cancer in the
12	definition of positive, you do not think	12	Gates study was positive or negative, how
13	that is a positive finding, correct?	13	would you reply?
14	A. Positive and not	14	A. I would say it's a negative.
15	statistically significant, yes.	15	Q. Okay. And I think we
16	Q. You do think it's positive,	16	already covered this. But you can't cite
17	but not statistically significant?	17	me to any authority, can you, that the
18	MS. CURRY: Object to the	18	Gates study reverses the Gertig finding,
19	form.	19	correct?
20	THE WITNESS: If you're	20	MS. CURRY: Object to the
21	asking me about directionality,	21	form.
22	it's obvious. Because	22	THE WITNESS: Well, I'm here
23	directionality it's positive.	23	giving my testimony. So I'm going
24	I do not consider it a	24	to assume the mantle of an
			Page 373
1	significant or valid finding	1	authority. And I would say if
2	because I can't say for 90	2	this group is followed for ten
3	percent, 95 percent accuracy, that	3	years longer and I'll add the
4	the true risk estimate lies above	4	caveat that women who used it for
5	one.	5	less than one week had the same
6	BY MS. GARBER:	6	risk in a study just two years
7	Q. So, Doctor, earlier today	7	before this, as women who had
8	you told me that where relative risk was	8	never used.
9	greater than one, but not statistically	9	So if you go to Gates 2008,
10	significant, that was a negative finding.	10	you will see for this study cohort
11	Are you now changing your	11	there's no reason to believe that
12	definition of positive versus negative?	12	it's not a valid thing to lump
13	A. I think you just misstated	13	somebody who used it in less than
14	my statement, because that's not	14	one week with never used, based on
15	doesn't make sense what you just said.	15	the Gates 2008 data.
16	Q. Okay. I thought you told me	16	So, yes, I would say this
17	earlier today when I asked you what a	17	1.4 that was found in Gertig is
18	negative study was, it included an odds	18	not is no longer here.
19	ratio that could be greater than one but	19	And so in my estimation,
20	if it wasn't statistically significant,	20	this reverses the findings. This
21	it was a negative study in your opinion?	21	says in the same population of
22	A. In this term, the question	22	women followed longer, the
23	that you just asked me when you were	23	increased risk went away.
		1	
24	asked positive, I thought you were asking	24	BY MS. GARBER:

PageID: 193817 Kevin Holcomb, M.D.

Q. The study authors, again, do not say that, correct? A. I'd have to	1 2	Page 376 BY MS. GARBER: Q. And what was the exposure
not say that, correct? A. I'd have to	2	
A. I'd have to		Q. And what was the exposure
	2	
0 50 1 1 1 1 1 0	3	metric in the Houghton study?
Q. They don't say it reverses?	4	A. There was a question at
A. I don't remember. I'd have	5	baseline with, "Have you ever used powder
to read through the whole discussion	6	on your private parts/genital areas?"
section for you.	7	And then respondents responding yes, were
Q. Okay. And, Doctor, as to	8	then asked to identify the duration of
	9	use. It was less than one year, one to
	10	four years, five to nine years, and all
A. Yes.	11	the way up to greater than 20 years.
Q. You say in your report, at	12	Q. And, Doctor, that's
	13	that's a duration of use
	14	A. Right.
	15	Q assessment, right?
	16	A. Yes.
	17	Q. And that doesn't take into
	18	consideration frequency of use, right?
	1	A. No.
		Q. All right. And then the
	1	Houghton authors state that the Nurses'
,	1	Health Study found that there was a
		40 percent increase in the risk with a
One second.	24	confidence interval of 1.02 to 1.91?
Page 375		Page 377
Q. It's in the middle of the	1	A. I'm not sure where you're
page.	2	looking.
A. Can you repeat the statement	3	Q. Okay. Doctor, if you look
that you said I'm looking for.	4	at the right-hand yeah. If you look
Q. In your expert report at	5	at the first page, the right-hand column.
Page 11 as to the Houghton study	6	MS. CURRY: Which study?
A. Yes.	7	Sorry.
Q you indicate that there	8	MS. GARBER: Houghton.
was no statistically significant	9	THE WITNESS: Yeah, but we
association.	10	don't
A. I'm looking for the term	11	MS. CURRY: You haven't
that you're saying.	12	marked it as an exhibit.
Q. That's okay, Doctor.	13	MS. GARBER: Oh, I'm sorry,
Do you know what the sample	14	you guys.
size was in the WHI study?	15	(Document marked for
A. I think it was about 61,000.	16	identification as Exhibit
Q. And based on the relative	17	Holcomb-21.)
small size, that's a study limitation of	18	BY MS. GARBER:
the Houghton study, correct?	19	Q. Okay. Let's mark the
MS. CURRY: Object to the	20	Houghton 2014 study. Doctor, if you look
form.	21	at the right-hand column, here.
101111.		
THE WITNESS: As taken in a	22	MS. SHARKO: What exhibit is
	22 23	MS. SHARKO: What exhibit is this?
	Q. Okay. And, Doctor, as to the Houghton study, the WHI study, you read that one, right? A. Yes. Q. You say in your report, at Page 11 in sort of the middle of the page, that there was no statistically significant association between use of genital talc and the development of ovarian cancer for ever users? A. I'm sorry. The page again? Q. Page 11. A. Yes. Q. And to make that statement, there is A. I'm still looking for it. One second. Page 375 Q. It's in the middle of the page. A. Can you repeat the statement that you said I'm looking for. Q. In your expert report at Page 11 as to the Houghton study A. Yes. Q you indicate that there was no statistically significant association. A. I'm looking for the term that you're saying. Q. That's okay, Doctor. Do you know what the sample size was in the WHI study? A. I think it was about 61,000. Q. And based on the relative small size, that's a study limitation of the Houghton study, correct?	Q. Okay. And, Doctor, as to the Houghton study, the WHI study, you read that one, right? A. Yes. Q. You say in your report, at Page 11 in sort of the middle of the page, that there was no statistically significant association between use of genital talc and the development of ovarian cancer for ever users? A. I'm sorry. The page again? Q. Page 11. A. Yes. Q. And to make that statement, there is A. I'm still looking for it. One second. Page 375 Q. It's in the middle of the page. A. Can you repeat the statement that you said I'm looking for. Q. In your expert report at Page 11 as to the Houghton study A. Yes. Q you indicate that there was no statistically significant association. A. I'm looking for the term that you're saying. Q. That's okay, Doctor. Do you know what the sample size was in the WHI study? A. I think it was about 61,000. Q. And based on the relative small size, that's a study limitation of the Houghton study, correct?

PageID: 193818 Kevin Holcomb, M.D.

	Page 378		Page 380
1	MS. CURRY: 21.	1	date, there has only been one
2	MS. SHARKO: Oh, 21? Okay.	2	prospective study conducted the
3	BY MS. GARBER:	3	powder use and risk of ovarian
4	Q. Doctor, do you see where I'm	4	cancer," and then only cite
5	marking right here, on the right-hand	5	Gertig, which in fact to that
6	side?	6	date, there had been two studies.
7	A. Yes.	7	If you don't want to say one
8	Q. The the sentence begins,	8	reversed it. Then you have to at
9	"In the Nurses' Health Study (NHS)	9	least admit that there was two
10	cohort, no overall association was found	10	studies. It was Gertig and Gates.
11	between the use of perineal powder and	11	So the fact that they made that
12	epithelial ovarian cancer" and it	12	mistake from the beginning of that
13	cites the risk "or serous ovarian	13	paragraph and follow it through
14	cancer," and it cites the odds ratio. It	14	with only talking about Gertig,
15	goes on to say, "However, there was a	15	yes, you're accurate you read
16	40 percent with a 95 percent confidence	16	perfectly right what they said.
17	interval of 1.02 to 1.91 increased risk	17	But my point is that that's not an
18	for serous invasive ovarian cancer with	18	accurate statement. There was
19	ever perineal use, which comprises	19	more than one.
20	86 percent of the serous ovarian cancers	20	BY MS. GARBER:
21	in the cohort."	21	Q. So Nurses' Health Study was
22	Did I read that correctly?	22	one study, right, with two publications?
23	A. You read it correctly.	23	A. No, I think that if you are
24	Q. And that cites to the Gertig	24	talking about how many studies,
			•
	Page 379		Page 381
1	study, right?	1	there's there is two different
2	A. Yes. The beginning of that	2	publications. You're right, they are
3	paragraph says, "To date there has only	3	only citing one of them.
4	been one prospective study conducted."	4	Q. So the Nurses' Health Study
_	This is 2013. And we've already		Q. So the Traises Health Study
5	This is 2013. And we've already	5	was one study with two publications or it
5 6	established there was a follow-up to that	5 6	•
	established there was a follow-up to that study in 2010 that wasn't included here.	1	was one study with two publications or it
6	established there was a follow-up to that	6	was one study with two publications or it was two studies with two publications?
6 7	established there was a follow-up to that study in 2010 that wasn't included here.	6 7 8 9	was one study with two publications or it was two studies with two publications? MS. CURRY: Object to the
6 7 8	established there was a follow-up to that study in 2010 that wasn't included here. Q. And that's precisely my point. So here, the Houghton authors are citing to the Gertig study, not the Gates	6 7 8	was one study with two publications or it was two studies with two publications? MS. CURRY: Object to the form. THE WITNESS: As you can see with my case-control lists for
6 7 8 9 10 11	established there was a follow-up to that study in 2010 that wasn't included here. Q. And that's precisely my point. So here, the Houghton authors are citing to the Gertig study, not the Gates study, correct?	6 7 8 9 10 11	was one study with two publications or it was two studies with two publications? MS. CURRY: Object to the form. THE WITNESS: As you can see with my case-control lists for example, I still counted those as
6 7 8 9 10 11 12	established there was a follow-up to that study in 2010 that wasn't included here. Q. And that's precisely my point. So here, the Houghton authors are citing to the Gertig study, not the Gates study, correct? A. That's correct. And I would	6 7 8 9 10 11 12	was one study with two publications or it was two studies with two publications? MS. CURRY: Object to the form. THE WITNESS: As you can see with my case-control lists for example, I still counted those as separate studies and you are
6 7 8 9 10 11 12 13	established there was a follow-up to that study in 2010 that wasn't included here. Q. And that's precisely my point. So here, the Houghton authors are citing to the Gertig study, not the Gates study, correct? A. That's correct. And I would consider it inappropriate not to mention	6 7 8 9 10 11 12 13	was one study with two publications or it was two studies with two publications? MS. CURRY: Object to the form. THE WITNESS: As you can see with my case-control lists for example, I still counted those as separate studies and you are talking about what percentage are
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PageID: 193819 Kevin Holcomb, M.D.

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2 BY MS. GARBER: 3 Q. You think they should have 4 cited the Gates 2010 study? 5 A. I think that's I think 6 that's it should make you pause when 7 the only prospective study that you're 8 quoting has this increased risk. And 9 then the women followed longer, the risk 10 goes away. It's worth mentioning I would 11 think. 12 Q. Well, Doctor, the Gates 13 study is peer reviewed and published, 14 right? 15 A. Yes. 16 Q. And the Penninkilampi is 17 peer reviewed and published, correct? 18 A. Yes. 19 Q. And I know the Taher isn't 20 yet peer reviewed, but it it cites to 21 the Gertig study too, doesn't it? 22 A. Repeated 23 MS. CURRY: Object to the 24 form. Page 383 1 THE WITNESS: mistakes 2 don't make it less of a mistake. 3 BY MS. GARBER: 4 Q. Okay. And while there is 4 duration of exposure, you don't know how 7 many women were exposed to long-term tale 4 defined by more than 20 years, do you, 16 the fined by more than 20 years, do you, 17 defined by more than 20 years, do you, 18 they many women had used it 19 cor 20 or more years? 19 Q. Yes. 11 A. How many women had used it 10 a. I have to go to the 11 results to check for that. Because it 12 was part of the questions. 13 and turning to Page 4. 14 right? 15 A. Yes. 16 Q. And I know the Taher isn't 17 year reviewed, but it it cites to 18 the Gertig study too, doesn't it? 20 yet peer reviewed, but it it cites to 21 the Gertig study too, doesn't it? 22 A. Repeated 23 MS. CURRY: Object to the 24 form. 25 A. Repeated 26 Gertig and the Penninkilampi are peer 27 A. Some of so 28 Q to Gertig 29 A. Yes. 10 Q is that true? 11 A. Yes, yes. 11 many women who many women used 11 A. Yes, yes. 12 Q. Okay. Let's talk further 13 about the Houghton study 14 A. Yes. 15 Q the WHI study. The study 16 enrolled 61,576 postmenopausal women, 17 right? 18 A. I'm sorry 19 Q. It's in the abstract under 19 Q. I's in the abstract under 19 Q. I's in the abstract under 19 Q. I's in the abstract under 19 Q. Okay. And you don't do 20 Sea	1		1	
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9 A. Yes. 10 Q is that true? 11 A. Yes, yes. 11 many women used it for longer, but 12 Q. Okay. Let's talk further 13 about the Houghton study 14 A. Yes. 15 Q the WHI study. The study 16 enrolled 61,576 postmenopausal women, 17 right? 18 A. I'm sorry 19 Q. It's in the abstract under 20 results? 21 A. Yes. 22 Q. Okay. And you don't do 20 This you let me 10 clarify. You're asking not how many women used it for longer, but how many women who developed ovarian cancer that had used it. BY MS. GARBER: Q. Yeah. A. That's 68. Yes. Q. Yeah. It's not very many women in that study group, is it? MS. CURRY: Object to the form. THE WITNESS: Relative to? BY MS. GARBER:	-			
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A. Yes, yes. Q. Okay. Let's talk further about the Houghton study A. Yes. Q the WHI study. The study enrolled 61,576 postmenopausal women, right? A. I'm sorry Q. It's in the abstract under A. Yes. Q. Okay. And you don't do 11 many women used it for longer, but how many women who developed ovarian cancer that had used it. BY MS. GARBER: Q. Yeah. A. That's 68. Yes. Q. Yeah. It's not very many women in that study group, is it? MS. CURRY: Object to the form. THE WITNESS: Relative to? BY MS. GARBER:				
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14 A. Yes. 15 Q the WHI study. The study 16 enrolled 61,576 postmenopausal women, 17 right? 18 A. I'm sorry 19 Q. It's in the abstract under 20 results? 21 A. Yes. 22 Q. Okay. And you don't do 21 BY MS. GARBER: 22 Q. Yeah. 25 Q. Yeah. 26 A. That's 68. Yes. 27 Q. Yeah. It's not very many 28 women in that study group, is it? 29 MS. CURRY: Object to the 20 form. 21 THE WITNESS: Relative to? 22 BY MS. GARBER:				
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16 enrolled 61,576 postmenopausal women, 17 right? 18 A. I'm sorry 19 Q. It's in the abstract under 20 results? 21 A. Yes. 22 Q. Okay. And you don't do 21 BY MS. GARBER: 22 A. That's 68. Yes. 24 A. That's 68. Yes. 26 Yes. 27 A. That's 68. Yes. 28 A. That's 68. Yes. 29 Women in that study group, is it? 29 MS. CURRY: Object to the form. 21 THE WITNESS: Relative to? 22 BY MS. GARBER:				
17right?17Q. Yeah. It's not very many18A. I'm sorry18women in that study group, is it?19Q. It's in the abstract under19MS. CURRY: Object to the20results?20form.21A. Yes.21THE WITNESS: Relative to?22Q. Okay. And you don't do22BY MS. GARBER:				
18 A. I'm sorry 19 Q. It's in the abstract under 20 results? 19 A. Yes. 21 A. Yes. 22 Q. Okay. And you don't do 28 women in that study group, is it? 29 MS. CURRY: Object to the form. 21 THE WITNESS: Relative to? 22 BY MS. GARBER:				
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20 results? 20 form. 21 A. Yes. 21 THE WITNESS: Relative to? 22 Q. Okay. And you don't do 22 BY MS. GARBER:				
21 A. Yes. 21 THE WITNESS: Relative to? 22 Q. Okay. And you don't do 22 BY MS. GARBER:				Ţ.
22 Q. Okay. And you don't do 22 BY MS. GARBER:				
	22	The state of the s	23	
		•		
24 talc, at what age, in this study? 24 A. Narod didn't say you need	47	taio, at what ago, in this study?		A. Ivarod didii t say you need

PageID: 193820 Kevin Holcomb, M.D.

	Page 386		Page 388
1	200,000 women with ovarian cancer. He	1	BY MS. GARBER:
2	said you need 200,000 women total.	2	Q. Okay. Another limitation of
3	Q. Okay. Is 68 who developed	3	the study was that one-sided metric of
4	ovarian cancer a good amount that gives	4	only capturing duration. Do you agree
5	you confidence in these data?	5	with that?
6	MS. CURRY: Object to the	6	MS. CURRY: Object to the
7	form.	7	form.
8	THE WITNESS: You know, the	8	THE WITNESS: I think a
9	smaller the number, the wider the	9	perfect study would collect
10	confidence interval would be.	10	collect both. So yes.
11	BY MS. GARBER:	11	BY MS. GARBER:
12	Q. Is this a wide confidence	12	Q. It would be an optimal study
13	interval? You testified in the Ingham	13	to collect both, wouldn't it?
14	case it was, didn't you?	14	MS. CURRY: Object to the
15	A. That this is a wide	15	form.
16	interval?	16	THE WITNESS: Unfortunately
17	Q. Mm-hmm.	17	there is no such thing as an
18	A. Well, it crosses it's	18	optimal study. I could look at
19	wide enough, and it's in the wrong you	19	all every study I reviewed and
20	know, it crosses one, so it's not	20	pick up things that should have
21	statistically significant.	21	been done differently and better.
22	So that apparent reduction	22	And hopefully learn with the next
23	in the risk, that 2 percent reduction in	23	study design. But that's true for
24	the risk, I wouldn't trust it.	24	everything in my reliance list.
	the risk, I wouldn't trust in		, , ,
	Page 387		Page 389
1	Q. That's a limitation of the	1	BY MS. GARBER:
2	study, right, the wide confidence	2	Q. Let's see if we can work out
3	interval, in that few women few number	3	how this would work.
4	of women participants?	4	If you only captured
5	MS. CURRY: Object to the	5	duration of use and you said it was
6	form.	6	you used it ten years or more, a given
7	BY MS. GARBER:	7	woman could have used it once a year on
8	Q. Right?	8	her anniversary for all you know,
9	A. The few number of women	9	correct?
10	participants, it's it's actually what,	10	A. Correct.
11	61,000 women participants.	11	The the big problem with
12	Q. The 68 women participants	12	this whole body of literature though, is
13	calls into question the validity of this	13	this concept that you have any idea of
14	subgroup analysis, doesn't it, Doctor?	14	the dose at the tissue level.
15	MS. CURRY: Object to the	15	I if you told me you used
16	form.	16	it everyday, and I'm a woman and I use it
17	THE WITNESS: If you're	17	everyday and you take three shakes and I
18	the only analysis that was broken	18	take one, we're really not getting to the
19	down, you're saying the number of	19	heart of dose-response.
20	women with ten or more years is	20	And this this is a
21	68.	21	difficulty of all this topic. It's
22	And when you say that's low,	22	it's they are all limited. They are
		23	
23	I'm not sure it's relative to	_ 43	all limited. We have no idea of the dose
23 24	I'm not sure it's relative to what.	24	all limited. We have no idea of the dose of tale, if it's even getting to the

PageID: 193821 Kevin Holcomb, M.D.

		1	
	Page 390		Page 392
1	ovaries, and if it's getting to the	1	Because even in the cases of
2	ovaries from that dusting, what amount is	2	the particles that you find, I
3	getting to the ovaries. And so we're	3	have no idea how they got there.
4	playing a pseudoscience game with	4	There is there is a lot
5	dose-response.	5	of weakness just overall in this
6	This isn't really	6	whole area.
7	dose-response. Dose-response studies	7	So I would be less bothered
8	have to do with the level of what you're	8	by that if you gave me the
9	interested in at the tissue level. So we	9	epidemiology data that showed me a
10	can go through the stuff and talk about	10	20-fold increase. Then I'm less
11	these as weaknesses, but this whole body	11	reliant or feel like you it's
12	of literature is weakened by the	12	less necessary.
13	inability to know.	13	But in this situation where
14	I don't even know for sure	14	we've already gone through the
15	that it gets to the ovary from this way.	15	epidemiologic data earlier. And I
16	How much each women put into her	16	pointed out all the
17	dusted with is is totally random.	17	inconsistencies, as I describe. I
18	O. And that's what I want to	18	call a 50/50 split inconsistent.
19	really get at here because you're aware	19	And now you get to this, and
20	of data where there is talc found in the	20	you can point out all the
21	ovarian tissue, both tumor and	21	weaknesses. But I'm saying
22	non-diseased, right?	22	there's weaknesses in all these
23	A. In women who report exposure	23	studies going through.
24	and women who don't report exposure.	24	studies going through.
	and women who don't report exposure.		
	Page 391		Page 393
1	Q. Okay. And you're aware	1	BY MS. GARBER:
2	of from your work in individual cases,	2	Q. Doctor, do you think that
3	that there are women who report talcum	3	the data which shows that there is
4	powder product exposure who have found	4	asbestos and talc in ovarian tissue
5	asbestos and talc in their ovaries,	5	provides a biologically plausible
6	correct?	6	mechanism of carcinogenicity?
7	MS. CURRY: Object to the	7	MS. CURRY: Object to the
8	form.	8	form.
9	THE WITNESS: There are	9	THE WITNESS: Just the
10	women who report neither of the	10	presence of it in the
11	two who find particles that	11	BY MS. GARBER:
12	diagnosed as talc or asbestos in	12	Q. Yeah.
13	their ovaries.	13	A. This is part of the problem
14	So you're getting to my	14	with this whole area. The presence
15	point, is that the it falls	15	Q. Doctor, that wasn't my
16	apart with the biologic	16	question.
17	plausibility because of all these	17	A. No. The presence
18	weaknesses, because you can't	18	Q. Yes or no.
19	really assess dose at the tissue	19	A. No. The presence of it does
20	level, because women who report	20	not
21	no because there isn't a good	21	Q. You don't think that
22	correlation between reported	22	A. Just the mere presence of
23	history of exposure and finding	23	the particle does not prove a causal
24	the particles.	24	relationship.
	-		-

PageID: 193822 Kevin Holcomb, M.D.

	Page 394		Page 396
1	Q. And you've seen paper after	1	not just in tale. I would look at
2	published paper wherein the study authors	2	that as a ridiculous situation in
3	who are actually studying talcum powder	3	any statement.
4	exposure, talc product exposure and	4	We're here and studying this
5	ovarian cancer, are stating that there is	5	because people say they they
6	a biologically plausible mechanism,	6	describe finding talc there. But
7	correct?	7	that's that's not the burden of
8		8	proof.
9	MS. CURRY: Object to the form.	9	BY MS. GARBER:
10	THE WITNESS: The	10	
11		11	Q. Okay. Do you think the
12	statements of	12	burden of proof is absolute proof that
	BY MS. GARBER:	13	the talc got there through perineal
13	Q. You just disagree with them?	l	dusting?
14	MS. CURRY: Object to the	14	A. Does it matter how it got
15	form.	15	there if it's a carcinogen?
16	THE WITNESS: But the in	16	Q. If it's a carcinogen, does
17	no situation, in medicine that I	17	it matter?
18	can think of would a the mere	18	A. It matters maybe for you,
19	presence of a molecule or particle	19	because of the nature of this litigation.
20	or whatever in a certain organ be	20	But if talc caused cancer of
21	evidence of its carcinogenicity.	21	the ovary, I could care less how it got
22	That's not biologic	22	there. I'd want to you know, the fact
23	plausibility.	23	that it's there is an issue. You'd be
24	Just its mere presence	24	able to prove that it's a carcinogen.
	Page 395		Page 397
1	isn't.	1	So even the cases, the
2	And the fact the fact	2	Heller study, you mentioned it earlier,
3	that so many people are saying	3	24 women, 12 reporting a history of
4	that is exactly what I'm talking	4	exposure, 12 not reporting a history of
5	about when people overstate the	5	exposure. Not only is there not a
6	findings of their studies, just	6	correlation, if I go back and I read the
7	the just the finding it there	7	paper, I think the fiber counts are even
8	in no way implies biologic	8	higher in the women without a reported
9	plausibility.	9	history.
10	BY MS. GARBER:	10	Q. We're going to look at that
11	Q. That's your opinion, right?	11	paper in a minute. But, Doctor, don't
12	A. That's like saying	12	the authors suggest why that is, why the
13	Q. There are study authors who	13	unexposed group may have high fiber
14	disagree with you, correct?	14	counts?
15	MS. CURRY: Object to the	15	MS. CURRY: Object to the
16	form.	16	form.
17	THE WITNESS: Just to give	17	THE WITNESS: Do they
18	you an example, it was it would	18	what what it is? Can you
19	be like saying because I went to	19	repeat?
20	the bank, there's a plausible	20	BY MS. GARBER:
21	evidence that I robbed the bank	21	Q. Don't the study authors
22	because I was there. I mean, that	22	suggest
23	doesn't make any sense to me.	23	A. See
24	That's not the way I look at it,	24	Q what may account for that
	inaconocuie way i look at it,	4I	Q what may account for that
	·		

PageID: 193823 Kevin Holcomb, M.D.

			Page 400
1		1	
1	high fiber burden in the non-exposed	1	Q. No, from the paraffin
2 3	group?	2 3	processing, right?
3 4	MS. CURRY: Object to the		MS. CURRY: Object to the
5	form.	4	form.
5 6	THE WITNESS: If you	5	THE WITNESS: Contamination
7	equal if you think and suggest	6	at some point. I mean, is it
	and hypothesize are the same, I	7	contamination during processing?
8	would agree with you. You see	8	Is it from surgical gloves from
9	suggestion in science means	9	past surgeries? Is it from my
10	there's some evidence to make you	10	point is, this is all conjecture
11	think this is the case.	11	because there's all these possible
12	Otherwise, you're just it's	12	explanations. And people can
13	conjecture and it's hypothesis.	13	suggest what they want in their
14	BY MS. GARBER:	14	introduction to their paper.
15	Q. And you read the Cramer	15	But I'm more interested in
16	paper. Didn't the Cramer paper suggest	16	the actual science that goes to
17	that address the issues, the	17	the heart of trying to figure
18	shortcomings of the Heller data, that	18	out you know.
19	there may be surface contamination that	19	But again, you're we
20	goes in and mixes with the talc or	20	started this conversation by
21	asbestos in the tissue which accounts for	21	talking about the mere presence of
22	the unexposed group?	22	talc particles in the ovary.
23	MS. CURRY: Object to the	23	BY MS. GARBER:
24	form.	24	Q. Okay. So we'll get back to
	Page 399		Page 401
1	BY MS. GARBER:	1	the cohorts, and then we'll move onto the
2	Q. Don't they suggest that?	2	biologic plausibility.
3	A. Yes. You're saying that one	3	But you would agree with me,
4	author says it's from one explanation and	4	wouldn't you, that there are study
5	Cramer says it's from another	5	peer-reviewed study authors that set
6	explanation, so yeah, they're all	6	forth that there is a biologically
7	suggesting these different things. One	7	plausible mechanism. You just disagree
8	person saying it is diapering as a child.	8	with that, correct?
9	The next person is saying it's	9	MS. CURRY: Object to the
10	contamination. The truth is no one	10	form.
11	knows.	11	THE WITNESS: The reason
12	Q. Did Cramer say it's coming	12	that I have to disagree with it
13	from contamination, or did Cramer say	13	is
	that you need to do polarized light to	14	BY MS. GARBER:
14		15	O Dester
14 15	make sure that you're adequately counting	1 13	Q. Doctor, my question is yes
	make sure that you're adequately counting what's really deeply embedded in the	16	or no.
15		1	
15 16	what's really deeply embedded in the	16	or no.
15 16 17	what's really deeply embedded in the tissue and not what's coming in the	16 17	or no. A. I disagree with it that
15 16 17 18	what's really deeply embedded in the tissue and not what's coming in the surface?	16 17 18	or no. A. I disagree with it that there's it's conjecture. Q. That's fine. I understand
15 16 17 18 19	what's really deeply embedded in the tissue and not what's coming in the surface? MS. CURRY: Object to the form.	16 17 18 19	or no. A. I disagree with it that there's it's conjecture. Q. That's fine. I understand your opinion.
15 16 17 18 19 20	what's really deeply embedded in the tissue and not what's coming in the surface? MS. CURRY: Object to the form. THE WITNESS: Because he	16 17 18 19 20	or no. A. I disagree with it that there's it's conjecture. Q. That's fine. I understand your opinion. I just want you to answer my
15 16 17 18 19 20 21	what's really deeply embedded in the tissue and not what's coming in the surface? MS. CURRY: Object to the form.	16 17 18 19 20 21	or no. A. I disagree with it that there's it's conjecture. Q. That's fine. I understand your opinion.

	Page 402		Page 404
1	just disagree with that?	1	Q. Doctor, this study involved
2	MS. CURRY: Object to the	2	only 41,654 women, correct?
3	form.	3	A. 41,000 women, and 600.
4	BY MS. GARBER:	4	Q. Yeah. And the talc exposure
5	Q. Correct?	5	metric was to ask women about the
6	A. I disagree with it. Many	6	frequency of their talcum powder exposure
7	people disagree with it.	7	within in their genitals within the
8	Q. Okay. And there's many	8	prior 12 months, correct?
9	people who agree with it, right?	9	A. Let me just confirm that.
10	MS. CURRY: Object to the	10	Q. It's under the methods on
11	form.	11	the abstract, Doctor.
12	THE WITNESS: Based on	12	A. Can you repeat your
13	pseudoscience.	13	statement just now?
14	BY MS. GARBER:	14	Q. Doctor, was one of the
15	Q. Is the Health Canada	15	limitations that the the exposure was
16	pseudoscience?	16	talcum powder exposure to the genitals
17	A. No, I wouldn't describe	17	within the prior 12 months. Do you agree
18	Health Canada as pseudoscience in	18	with that?
19	totality. But if you if you want to	19	A. Yes. Along along with
20	read through it and ask what things I	20	frequency. I I thought you were
21	agree with and what things I don't, I	21	yes.
22	think I've already told you that when	22	Q. Okay. And the follow-up
23	when authors make statements in their	23	there in the abstract was 6.6 years,
24	preambles, in their introductions, that	24	right?
	Page 403		Page 405
1	aren't based on data but they state it as	1	A. Yes.
2	a fact, watch out for what's coming	2	Q. And you don't know when the
3	later.	3	women started using talc, right?
4	Q. Okay. We'll go to	4	A. No.
5	A. If somebody starts off like		
_	,	5	Q. Like the others?
6	that.	6	Q. Like the others?A. As I I would anticipate
7	that. Q. We'll go to Health Canada	6 7	Q. Like the others?A. As I I would anticipate that they were average users.
7 8	that. Q. We'll go to Health Canada and see what they said about biologic	6 7 8	Q. Like the others?A. As I I would anticipate that they were average users.Q. Doctor, does douching
7 8 9	that. Q. We'll go to Health Canada and see what they said about biologic plausibility.	6 7 8 9	 Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer?
7 8 9 10	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in	6 7 8 9 10	 Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does.
7 8 9 10 11	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada.	6 7 8 9 10 11	 Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor
7 8 9 10 11 12	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig	6 7 8 9 10 11 12	 Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer?
7 8 9 10 11 12 13	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct?	6 7 8 9 10 11 12 13	 Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is.
7 8 9 10 11 12 13	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct? A. The same study that we were	6 7 8 9 10 11 12 13 14	 Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is. Q. Do you tell your patients
7 8 9 10 11 12 13 14	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct? A. The same study that we were just going through?	6 7 8 9 10 11 12 13 14 15	 Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is. Q. Do you tell your patients that douching is a risk factor for
7 8 9 10 11 12 13 14 15	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct? A. The same study that we were just going through? Q. I'm sorry, I I misspoke.	6 7 8 9 10 11 12 13 14 15 16	 Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is. Q. Do you tell your patients that douching is a risk factor for ovarian cancer?
7 8 9 10 11 12 13 14 15 16	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct? A. The same study that we were just going through? Q. I'm sorry, I I misspoke. The Gonzalez study?	6 7 8 9 10 11 12 13 14 15 16 17	 Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is. Q. Do you tell your patients that douching is a risk factor for ovarian cancer? A. No. Because it's only one
7 8 9 10 11 12 13 14 15 16 17	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct? A. The same study that we were just going through? Q. I'm sorry, I I misspoke. The Gonzalez study? A. Yes, I did.	6 7 8 9 10 11 12 13 14 15 16 17	Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is. Q. Do you tell your patients that douching is a risk factor for ovarian cancer? A. No. Because it's only one study suggesting it.
7 8 9 10 11 12 13 14 15 16 17 18	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct? A. The same study that we were just going through? Q. I'm sorry, I I misspoke. The Gonzalez study? A. Yes, I did. Q. And I'll mark that as	6 7 8 9 10 11 12 13 14 15 16 17 18	Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is. Q. Do you tell your patients that douching is a risk factor for ovarian cancer? A. No. Because it's only one study suggesting it. Q. And, Doctor, any of the
7 8 9 10 11 12 13 14 15 16 17 18 19 20	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct? A. The same study that we were just going through? Q. I'm sorry, I I misspoke. The Gonzalez study? A. Yes, I did. Q. And I'll mark that as Exhibit 22.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is. Q. Do you tell your patients that douching is a risk factor for ovarian cancer? A. No. Because it's only one study suggesting it. Q. And, Doctor, any of the limitations that we've just gone through
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct? A. The same study that we were just going through? Q. I'm sorry, I I misspoke. The Gonzalez study? A. Yes, I did. Q. And I'll mark that as Exhibit 22. (Document marked for	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is. Q. Do you tell your patients that douching is a risk factor for ovarian cancer? A. No. Because it's only one study suggesting it. Q. And, Doctor, any of the limitations that we've just gone through with regard to the cohort studies, none
7 8 9 10 11 12 13 14 15 16 17 18 19 20	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct? A. The same study that we were just going through? Q. I'm sorry, I I misspoke. The Gonzalez study? A. Yes, I did. Q. And I'll mark that as Exhibit 22. (Document marked for identification as Exhibit	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is. Q. Do you tell your patients that douching is a risk factor for ovarian cancer? A. No. Because it's only one study suggesting it. Q. And, Doctor, any of the limitations that we've just gone through with regard to the cohort studies, none of them are listed within the four
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that. Q. We'll go to Health Canada and see what they said about biologic plausibility. A. You spend a lot of time in Canada. Q. You also reviewed the Gertig study, correct? A. The same study that we were just going through? Q. I'm sorry, I I misspoke. The Gonzalez study? A. Yes, I did. Q. And I'll mark that as Exhibit 22. (Document marked for	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Like the others? A. As I I would anticipate that they were average users. Q. Doctor, does douching increase the risk for ovarian cancer? A. This study suggests it does. Q. Is douching a risk factor for ovarian cancer? A. This study suggests it is. Q. Do you tell your patients that douching is a risk factor for ovarian cancer? A. No. Because it's only one study suggesting it. Q. And, Doctor, any of the limitations that we've just gone through with regard to the cohort studies, none

PageID: 193825 Kevin Holcomb, M.D.

	Dags 400		Dama 400
_	Page 406	_	Page 408
1	MS. CURRY: Object to the	1	MS. CURRY: Do you have
2	form.	2	copies of that?
3	THE WITNESS: The	3	BY MS. GARBER:
4	limitations of cohort studies in	4	Q. Doctor, what I've attempted
5	general?	5	to do is to show the results for talcum
6	BY MS. GARBER:	6	powder product and ovarian cancer results
7	Q. That we've gone through	7	of the meta-analyses.
8	here, as we've gone through the cohorts.	8	A. Mm-hmm.
9	A. The	9	Q. And I've listed there the
10	Q. You have not you have not	10	meta-analyses and the pooled study.
11	put forth in the four corners of your	11	The as you see study type, the Berge
12	report any of the study limitations of	12	study indicates it's a pooled study.
13	the cohorts, correct?	13	All of those odds ratios are
14	A. I'd have to read through	14	within the vicinity of 1.22 to 1.35.
15	the through this again. I I don't	15	Do you see that?
16	remember exactly, you know, every word	16	A. Yes.
17	that I said about them.	17	MS. CURRY: Object to the
18	Q. Doctor, let's talk about the	18	form.
19	meta-analyses.	19	BY MS. GARBER:
20	A. Sure.	20	Q. And those are discrepant
21	(Document marked for	21	results?
22	identification as Exhibit	22	A. I wasn't speaking about the
23	Holcomb-23.)	23	strength of association. I think you
24	BY MS. GARBER:	24	assumed that.
	Page 407		Page 409
1	Q. I'm going to mark the	1	I was referring to, there's
2	Penninkilampi paper. Exhibit 23.	2	discrepancies between what tumors were
3	Doctor, before we turn to	3	
4]	increased and which ones weren't. For
-	the Penninkilampi paper. In your expert	4	example, Penninkilampi, I believe, found
5	the Penninkilampi paper. In your expert report, you indicate that the		
5 6		4	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only.
5 6 7	report, you indicate that the	4 5	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry
5 6 7 8	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page	4 5 6 7 8	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by
5 6 7 8 9	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from?	4 5 6 7 8 9	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in
5 6 7 8 9	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13.	4 5 6 7 8 9	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the
5 6 7 8 9 10 11	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13 are discrepant. Do you	4 5 6 7 8 9 10 11	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association.
5 6 7 8 9 10 11 12	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term?	4 5 6 7 8 9 10 11	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay.
5 6 7 8 9 10 11 12 13	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term? It's the very last two words	4 5 6 7 8 9 10 11 12 13	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay. A. We spent a fair amount of
5 6 7 8 9 10 11 12 13 14	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term? It's the very last two words of the first paragraph at Page 13.	4 5 6 7 8 9 10 11 12 13 14	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay. A. We spent a fair amount of time earlier talking about the levels of
5 6 7 8 9 10 11 12 13 14 15	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term? It's the very last two words of the first paragraph at Page 13. Do you see that?	4 5 6 7 8 9 10 11 12 13 14 15	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay. A. We spent a fair amount of time earlier talking about the levels of overlap in some of the meta-analyses.
5 6 7 8 9 10 11 12 13 14 15	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term? It's the very last two words of the first paragraph at Page 13. Do you see that? A. Yes.	4 5 6 7 8 9 10 11 12 13 14 15	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay. A. We spent a fair amount of time earlier talking about the levels of overlap in some of the meta-analyses. Q. We're going to give you a
5 6 7 8 9 10 11 12 13 14 15 16	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term? It's the very last two words of the first paragraph at Page 13. Do you see that? A. Yes. (Document marked for	4 5 6 7 8 9 10 11 12 13 14 15 16 17	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay. A. We spent a fair amount of time earlier talking about the levels of overlap in some of the meta-analyses. Q. We're going to give you a chance to talk about those in a second,
5 6 7 8 9 10 11 12 13 14 15 16 17 18	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term? It's the very last two words of the first paragraph at Page 13. Do you see that? A. Yes. (Document marked for identification as Exhibit	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay. A. We spent a fair amount of time earlier talking about the levels of overlap in some of the meta-analyses. Q. We're going to give you a chance to talk about those in a second, Doctor.
5 6 7 8 9 10 11 12 13 14 15 16 17 18	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term? It's the very last two words of the first paragraph at Page 13. Do you see that? A. Yes. (Document marked for identification as Exhibit Holcomb-24.)	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay. A. We spent a fair amount of time earlier talking about the levels of overlap in some of the meta-analyses. Q. We're going to give you a chance to talk about those in a second, Doctor. A. Sure.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term? It's the very last two words of the first paragraph at Page 13. Do you see that? A. Yes. (Document marked for identification as Exhibit Holcomb-24.) BY MS. GARBER:	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay. A. We spent a fair amount of time earlier talking about the levels of overlap in some of the meta-analyses. Q. We're going to give you a chance to talk about those in a second, Doctor. A. Sure. Q. With regard to talcum powder
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term? It's the very last two words of the first paragraph at Page 13. Do you see that? A. Yes. (Document marked for identification as Exhibit Holcomb-24.) BY MS. GARBER: Q. And I'm going to mark as	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay. A. We spent a fair amount of time earlier talking about the levels of overlap in some of the meta-analyses. Q. We're going to give you a chance to talk about those in a second, Doctor. A. Sure. Q. With regard to talcum powder products and serous ovarian cancer in the
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term? It's the very last two words of the first paragraph at Page 13. Do you see that? A. Yes. (Document marked for identification as Exhibit Holcomb-24.) BY MS. GARBER: Q. And I'm going to mark as Exhibit 24, a document which I will	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay. A. We spent a fair amount of time earlier talking about the levels of overlap in some of the meta-analyses. Q. We're going to give you a chance to talk about those in a second, Doctor. A. Sure. Q. With regard to talcum powder products and serous ovarian cancer in the meta-analyses, the Taher paper, the
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term? It's the very last two words of the first paragraph at Page 13. Do you see that? A. Yes. (Document marked for identification as Exhibit Holcomb-24.) BY MS. GARBER: Q. And I'm going to mark as Exhibit 24, a document which I will represent to you I created. It may have	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay. A. We spent a fair amount of time earlier talking about the levels of overlap in some of the meta-analyses. Q. We're going to give you a chance to talk about those in a second, Doctor. A. Sure. Q. With regard to talcum powder products and serous ovarian cancer in the meta-analyses, the Taher paper, the Penninkilampi paper and the Berge paper
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	report, you indicate that the meta-analyses the results of the meta-analyses A. Can you tell me what page you are reading from? Q. Page 13. are discrepant. Do you recall using that phrase or that term? It's the very last two words of the first paragraph at Page 13. Do you see that? A. Yes. (Document marked for identification as Exhibit Holcomb-24.) BY MS. GARBER: Q. And I'm going to mark as Exhibit 24, a document which I will	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	example, Penninkilampi, I believe, found serous and endometrioid but not mucinous or clear cell. Berge found serous only. Terry found I don't even think Terry broke it down by So there's discrepancies in results. I wasn't referring to the strength of association. Q. Okay. A. We spent a fair amount of time earlier talking about the levels of overlap in some of the meta-analyses. Q. We're going to give you a chance to talk about those in a second, Doctor. A. Sure. Q. With regard to talcum powder products and serous ovarian cancer in the meta-analyses, the Taher paper, the

PageID: 193826 Kevin Holcomb, M.D.

	Page 410		Page 412
1	agree with that?	1	A. It's a mistake then that's
2	A. Can we talk we spoke	2	not only made by Penninkilampi.
3	earlier about the overlap in the number,	3	Q. Right. The you have not
4	the studies on these three studies	4	performed a meta-analysis yourself, have
5	Q. Doctor, I	5	you?
6	A so it would be strange	6	A. No, I have not.
7	for the same study design to come out	7	Q. And you certainly do not
8	with discrepant results when they are	8	have any evidence, do you, Dr. Holcomb,
9	looking at largely the same studies.	9	that would support your contention that
10	So yes, the the point	10	if the study authors had used Gates 2010
11	that these are showing consistency is not	11	instead of Gertig, it would have changed
12	going towards proving causality. Because	12	the outcome?
13	you would just expect that if you	13	MS. CURRY: Object to the
14	subjected the same studies to this study	14	form.
15	design, you really should come up with	15	THE WITNESS: I'm not so
16	very similar results.	16	sure about that.
17	Q. So you agree then, Doctor,	17	BY MS. GARBER:
18	that the meta-analyses both with	18	Q. You would be speculating,
19	epithelial ovarian cancer and serous	19	wouldn't you, because you haven't done
20	ovarian cancer are consistent, correct?	20	that study, right?
21	MS. CURRY: Object to the	21	MS. CURRY: Object to the
22	form.	22	form.
23	THE WITNESS: I believe they	23	THE WITNESS: But that
23 24	are very similar studies.	24	
2 4	are very similar studies.	24	wasn't your question. Can you
	Page 411		Page 413
1	BY MS. GARBER:	1	repeat your question?
2	Q. Is the answer to my question	2	BY MS. GARBER:
3	yes?	3	Q. Sure. I'll ask it this way.
4	A. Yes. I believe that when	4	A. No, I wanted you to repeat,
5	you examine the same studies you will get	1	, - ···· <i>j</i> - ··· r - ···,
_		1 5	because I vou're saving speculation.
6	very similar answers.	5 6	because I you're saying speculation, but I believe you asked me to speculate.
6 7	very similar answers. O. With regard to your	6 7	but I believe you asked me to speculate.
7	Q. With regard to your	6 7	but I believe you asked me to speculate. Q. Sure. I'll ask you a better
	Q. With regard to your criticisms of the Penninkilampi paper,	6	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question.
7 8 9	Q. With regard to your criticisms of the Penninkilampi paper, did you write the journal voicing your	6 7 8 9	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question. You have not performed a
7 8 9 10	Q. With regard to your criticisms of the Penninkilampi paper, did you write the journal voicing your concerns about this study?	6 7 8 9 10	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question. You have not performed a meta-analysis using the Gates rather than
7 8 9 10 11	Q. With regard to your criticisms of the Penninkilampi paper, did you write the journal voicing your concerns about this study? A. No.	6 7 8 9 10 11	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question. You have not performed a meta-analysis using the Gates rather than the Gertig for the ever use with
7 8 9 10 11 12	Q. With regard to your criticisms of the Penninkilampi paper, did you write the journal voicing your concerns about this study? A. No. Q. Did you attempt to contact	6 7 8 9 10 11 12	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question. You have not performed a meta-analysis using the Gates rather than the Gertig for the ever use with epithelial ovarian cancer, true?
7 8 9 10 11 12 13	Q. With regard to your criticisms of the Penninkilampi paper, did you write the journal voicing your concerns about this study? A. No. Q. Did you attempt to contact the study authors?	6 7 8 9 10 11 12 13	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question. You have not performed a meta-analysis using the Gates rather than the Gertig for the ever use with epithelial ovarian cancer, true? A. As I stated earlier I have
7 8 9 10 11 12 13	Q. With regard to your criticisms of the Penninkilampi paper, did you write the journal voicing your concerns about this study? A. No. Q. Did you attempt to contact the study authors? A. No.	6 7 8 9 10 11 12 13 14	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question. You have not performed a meta-analysis using the Gates rather than the Gertig for the ever use with epithelial ovarian cancer, true? A. As I stated earlier I have not performed any meta-analysis, so that
7 8 9 10 11 12 13 14 15	Q. With regard to your criticisms of the Penninkilampi paper, did you write the journal voicing your concerns about this study? A. No. Q. Did you attempt to contact the study authors? A. No. Q. And you indicate in your	6 7 8 9 10 11 12 13 14 15	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question. You have not performed a meta-analysis using the Gates rather than the Gertig for the ever use with epithelial ovarian cancer, true? A. As I stated earlier I have not performed any meta-analysis, so that would be true for that specific question
7 8 9 10 11 12 13 14 15	Q. With regard to your criticisms of the Penninkilampi paper, did you write the journal voicing your concerns about this study? A. No. Q. Did you attempt to contact the study authors? A. No. Q. And you indicate in your expert report that the study authors in	6 7 8 9 10 11 12 13 14 15 16	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question. You have not performed a meta-analysis using the Gates rather than the Gertig for the ever use with epithelial ovarian cancer, true? A. As I stated earlier I have not performed any meta-analysis, so that would be true for that specific question as well.
7 8 9 10 11 12 13 14 15 16 17	Q. With regard to your criticisms of the Penninkilampi paper, did you write the journal voicing your concerns about this study? A. No. Q. Did you attempt to contact the study authors? A. No. Q. And you indicate in your expert report that the study authors in Penninkilampi should have included the	6 7 8 9 10 11 12 13 14 15 16 17	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question. You have not performed a meta-analysis using the Gates rather than the Gertig for the ever use with epithelial ovarian cancer, true? A. As I stated earlier I have not performed any meta-analysis, so that would be true for that specific question as well. Q. And there are no study
7 8 9 10 11 12 13 14 15 16 17	Q. With regard to your criticisms of the Penninkilampi paper, did you write the journal voicing your concerns about this study? A. No. Q. Did you attempt to contact the study authors? A. No. Q. And you indicate in your expert report that the study authors in Penninkilampi should have included the Gates study instead of the Gertig 2000	6 7 8 9 10 11 12 13 14 15 16 17	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question. You have not performed a meta-analysis using the Gates rather than the Gertig for the ever use with epithelial ovarian cancer, true? A. As I stated earlier I have not performed any meta-analysis, so that would be true for that specific question as well. Q. And there are no study authors that have indicated it's a
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. With regard to your criticisms of the Penninkilampi paper, did you write the journal voicing your concerns about this study? A. No. Q. Did you attempt to contact the study authors? A. No. Q. And you indicate in your expert report that the study authors in Penninkilampi should have included the Gates study instead of the Gertig 2000 study; is that correct? A. Yes. Q. And there are other study authors that we've seen that have	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question. You have not performed a meta-analysis using the Gates rather than the Gertig for the ever use with epithelial ovarian cancer, true? A. As I stated earlier I have not performed any meta-analysis, so that would be true for that specific question as well. Q. And there are no study authors that have indicated it's a mistake to include Gertig rather than Gates 2010, correct? MS. CURRY: Object to the form.
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. With regard to your criticisms of the Penninkilampi paper, did you write the journal voicing your concerns about this study? A. No. Q. Did you attempt to contact the study authors? A. No. Q. And you indicate in your expert report that the study authors in Penninkilampi should have included the Gates study instead of the Gertig 2000 study; is that correct? A. Yes. Q. And there are other study	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	but I believe you asked me to speculate. Q. Sure. I'll ask you a better question. You have not performed a meta-analysis using the Gates rather than the Gertig for the ever use with epithelial ovarian cancer, true? A. As I stated earlier I have not performed any meta-analysis, so that would be true for that specific question as well. Q. And there are no study authors that have indicated it's a mistake to include Gertig rather than Gates 2010, correct? MS. CURRY: Object to the

PageID: 193827 Kevin Holcomb, M.D.

		<u> </u>	
	Page 414		Page 416
1	Canada didn't say that, did they?	1	am?
2	A. Health Canada included	2	A. I'm looking at A, yes.
3	Gates, so they didn't make the mistake.	3	Q. Yeah, okay. Very good. And
4	Q. But they didn't say it was a	4	with the legend below, it indicates that
5	mistake for other study authors to	5	2-A is any perineal talc use, right?
6	include	6	That's a ever/never metric, right?
7	A. The fact that they didn't	7	A. That's what they say down
8	make the same mistake, I've got to	8	here, yes.
9	believe that they thought it was	9	Q. Right. And as we see, Gates
10	worthwhile to include the study. So yes,	10	is not an ever/never, is it?
11	they thought it was a mistake not to	11	A. Neither is Wu, et al., 2015
12	include it. They included it.	12	and they included that
13	Q. Well, they didn't say it was	13	Q. I thought you might say
14	a mistake, did they?	14	that. Let's look at Wu. Or let's look
15	A. Because they did it. Why	15	at what Penninkilampi says about Wu.
16	would they	16	A. Okay.
17	Q. Doctor, you are speculating,	17	Q. Let's go to Page 43 of the
18	aren't you?	18	
19	MS. CURRY: Object to the	19	Penninkilampi paper. And here in the middle of the paragraph.
20	form.	20	1 0 1
21	BY MS. GARBER:	21	Do you see where I am?
22		1	A. Yes.
	Q. As as we talked about	22	Q. It says, "Note that the Wu,
23	earlier	23	et al., 2015 include results from Wu
24	MS. SHARKO: Was that a	24	2009. However, only Wu, et al., 2009,
	Page 415		Page 417
1	question the doctor should answer?	1	reported on non-perineal tale use total
2	BY MS. GARBER:	2	lifetime applications and long-term talc
3	Q. Did you answer my question?	3	use, hence data were extracted from Wu
4	A. I'm a little confused if you	4	2015 for any perineal use outcome from
5	can repeat.	5	the Wu, et al., 2009, for the" "for
6	Q. I'll just withdraw and move	6	the three other outcomes previously
7	-	7	mentioned."
8	on. Doctor, the exposure for	8	So the authors in
9	Gertig was ever/never, right?	9	Penninkilampi were trying to keep the
10		10	data consistent and keep with ever/never
11	e e e e e e e e e e e e e e e e e e e	11	-
12	· •	12	exposure, not change the metric, right, Doctor?
13	was not ever/never, was it? A. No.	13	
$\frac{13}{14}$		1	A. Give me one give me one
	Q. And so let's look at	14	second just read that. Note that Wu, et
15	Penninkilampi, if we could. Page 46,	15	al
16	figure A.	16	MS. CURRY: Object to the
17	Do you see where I am?	17	form. And do you have a copy of
18	Figure 2-A.	18	Wu 2015? Do you have a copy of
19	A. I'm sorry, 2-A? I'm looking	19	the Wu 2015 paper?
20	at oh, I'm looking at Table 2. 46.	20	MS. GARBER: I may. I don't
21	Sorry.	21	know if I'm going to use it. You
	Q. It's on Page 46.	22	can if you'd like.
22			
22 23	A. Yes.	23	BY MS. GARBER:
22		23 24	

PageID: 193828 Kevin Holcomb, M.D.

1	Page 418		Page 420
1			rage 420
Τ.	record while you read that?	1	they were similar to IARC,
2	A. Well, I guess I don't I'm	2	possibly a carcinogen.
3	trying to figure out, is he saying that	3	BY MS. GARBER:
4	he only looked at the patients in Wu 2015	4	Q. Health Canada?
5	that were actually included in the Wu	5	A. Yes.
6	2009 for that	6	Q. Okay. Let's look at Health
7	Q. Doctor, if you don't	7	Canada.
8	understand what the authors are saying	8	A. Sure. I have it open.
9	A. I don't.	9	Q. Doctor, if you can turn to
10	Q we'll just move on.	10	Page 21, and right above 6.2, exposure
11	A. Yeah, I don't understand.	11	assessment, it indicates, "The most
12	Q. Okay. All right. Let's	12	recent meta-analysis detailed above,
13	move on.	13	Taher 2018, and consistent with the Hill
14	A. Because it seems to me that	14	criteria suggest a small but consistent
15	he would only include Wu 2009.	15	statistically significant positive
16	Q. Doctor, I don't have a	16	association between ovarian cancer and
17	question pending.	17	perineal talc exposure. Further
18	A. If Wu 2009 only had the ever	18	available data are indicative of a causal
19	use, why have Wu 2015 cited if you only	19	effect."
20	used the patients on 2009?	20	Did I read that correctly?
21	MS. GARBER: Objection to	21	A. Yes. Apparently they
22	strike as nonresponsive.	22	disagree with IARC.
23	BY MS. GARBER:	23	Q. They looked at more data
24	Q. Doctor, I did not have a	24	than IARC looked at, didn't they?
	Page 419		Page 421
1	question pending.	1	A. I'll tell you, I'm not I
2	Are you aware, Doctor, that	2	have to tell you that they do say causal
3	the Health Canada considered the	3	effect here. And yet if I have time to
4	collective meta-analyses in coming to	4	read through this, I can show you where
5	their causal opinion regarding genital	5	they say it's a possible carcinogen.
6	tale and risk of ovarian cancer?	6	And I'm not sure how you can
7	A. Yes.	7	say that something is a possible
8	MS. CURRY: Object to the	8	carcinogen and that it is causative of
9	form.	9	cancer in the same paper.
10	BY MS. GARBER:	10	But if you can give if
11	Q. And are you aware that the	11	you give me the time I can show you where
12	IARC 2010 considered the meta-analyses	12	it says it's a possible carcinogen.
13	that were then available at the time in	13	MS. GARBER: Let's take a
14	coming to their findings regarding talc	14	break.
15	and its carcinogenicity?	15	THE VIDEOGRAPHER: Okay.
16	A. Yes.	16	The time the time is 5:01 p.m.
17	Q. And what was Health Canada's	17	Off the record.
18	conclusion about tale and risk of ovarian	18	(Short break.)
19	cancer? Did they come to a causal	19	THE VIDEOGRAPHER: We are
20	opinion?	20	back on the record. The time is
21	MS. CURRY: Object to the	21	5:22 p.m.
22	form.	22	BY MS. GARBER:
23	THE WITNESS: My memory was	23	Q. Just so I'm clear, Doctor, it's your opinion that there is no
24	that they said it's possibly	24	

PageID: 193829 Kevin Holcomb, M.D.

	Dogo 422		Dogo 424
	Page 422		Page 424
1	biologically plausible mechanism by which	1	can happen.
2	tale powder products can translocate or	2	But people hypothesizing,
3	migrate from the perineum to the	3	yes, I've seen that.
4	fallopian tubes and ovaries in your	4	BY MS. GARBER:
5	opinion?	5	Q. You've seen study authors
6	A. I want to make sure I'm	6	who conclude that, right?
7	understanding the question. I there	7	A. I have seen study authors
8	is no expelling evidence that I've seen	8	who hypothesize it. You can't conclude
9	that has the ability to do it. So I'm	9	it without any studies showing it.
10	not ask I'm not sure if you're asking	10	(Document marked for
11	is it just possible or is it is any	11	identification as Exhibit
12	evidence to suggest that it can happen.	12	Holcomb-25.)
13	Because if if you're	13	BY MS. GARBER:
14	saying is it possible, I'd have to say	14	Q. I'm going to mark as
15	yes. If you're saying is there any	15	Exhibit 25 a document which I'll
16	evidence suggesting it could happen, I	16	represent to you is an FDA letter dated
17	would have to say no.	17	April 1st, 2014.
18	Q. Doctor, is there a	18	And, Doctor, this document
19	biologically plausible mechanism by which	19	appears on your reference list, doesn't
20	talcum powder products can translocate	20	it?
21	from the perineum to the fallopian tubes	21	A. Yes.
22	· · · · · · · · · · · · · · · · · · ·	22	Q. And if we could turn to
	and ovaries in your opinion?	23	Page 5 in the middle of the page where
23	A. I would have to say it would	24	the
24	be unlikely that that the female	24	the
	Page 423		Page 425
1	and the lateral and the lateral and the second		
	genital tract, while open, for obvious	1	A. I'm sorry, give me one
2	genital tract, while open, for obvious reasons has developed many mechanisms to	1 2	A. I'm sorry, give me one second. 5 Page 4 5. Mm-hmm.
2 3	reasons has developed many mechanisms to		second. 5 Page 4 5. Mm-hmm.
	reasons has developed many mechanisms to keep particulate matter and foreign	2	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of
3	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal	2 3 4	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is
3 4	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity.	2 3 4 5	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while.
3 4 5	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's	2 3 4	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am?
3 4 5 6 7	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me.	2 3 4 5 6 7	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can
3 4 5 6 7 8	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that	2 3 4 5 6 7 8	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the
3 4 5 6 7 8 9	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that.	2 3 4 5 6 7 8 9	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle,
3 4 5 6 7 8 9	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors	2 3 4 5 6 7 8 9	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while.
3 4 5 6 7 8 9 10	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that	2 3 4 5 6 7 8 9 10 11	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am.
3 4 5 6 7 8 9 10 11	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible	2 3 4 5 6 7 8 9 10 11 12	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes.
3 4 5 6 7 8 9 10 11 12 13	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible mechanism by which talc can talcum	2 3 4 5 6 7 8 9 10 11 12 13	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no
3 4 5 6 7 8 9 10 11 12 13 14	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible mechanism by which talc can talcum powder products can translocate from the	2 3 4 5 6 7 8 9 10 11 12 13 14	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no direct proof of talc and ovarian
3 4 5 6 7 8 9 10 11 12 13 14 15	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible mechanism by which talc can talcum powder products can translocate from the perineum to the fallopian tubes and	2 3 4 5 6 7 8 9 10 11 12 13 14 15	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no direct proof of talc and ovarian carcinogenesis, the potential for
3 4 5 6 7 8 9 10 11 12 13 14 15 16	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible mechanism by which talc can talcum powder products can translocate from the perineum to the fallopian tubes and ovaries, right?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no direct proof of talc and ovarian carcinogenesis, the potential for particulates to migrate from the perineum
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible mechanism by which talc can talcum powder products can translocate from the perineum to the fallopian tubes and ovaries, right? MS. CURRY: Object to the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no direct proof of talc and ovarian carcinogenesis, the potential for particulates to migrate from the perineum and vagina to the peritoneal cavity is
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible mechanism by which talc can talcum powder products can translocate from the perineum to the fallopian tubes and ovaries, right? MS. CURRY: Object to the form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no direct proof of talc and ovarian carcinogenesis, the potential for particulates to migrate from the perineum and vagina to the peritoneal cavity is indisputable."
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible mechanism by which talc can talcum powder products can translocate from the perineum to the fallopian tubes and ovaries, right? MS. CURRY: Object to the form. THE WITNESS: I'm assuming	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no direct proof of talc and ovarian carcinogenesis, the potential for particulates to migrate from the perineum and vagina to the peritoneal cavity is indisputable." Do you agree with that?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible mechanism by which talc can talcum powder products can translocate from the perineum to the fallopian tubes and ovaries, right? MS. CURRY: Object to the form. THE WITNESS: I'm assuming you I'm assuming you struck	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no direct proof of talc and ovarian carcinogenesis, the potential for particulates to migrate from the perineum and vagina to the peritoneal cavity is indisputable." Do you agree with that? A. No. This is an example of
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible mechanism by which talc can talcum powder products can translocate from the perineum to the fallopian tubes and ovaries, right? MS. CURRY: Object to the form. THE WITNESS: I'm assuming you I'm assuming you struck your original question because	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no direct proof of talc and ovarian carcinogenesis, the potential for particulates to migrate from the perineum and vagina to the peritoneal cavity is indisputable." Do you agree with that? A. No. This is an example of what I was saying earlier. Someone
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible mechanism by which talc can talcum powder products can translocate from the perineum to the fallopian tubes and ovaries, right? MS. CURRY: Object to the form. THE WITNESS: I'm assuming you I'm assuming you struck your original question because they are making the statements with no data. And so no, I've	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no direct proof of talc and ovarian carcinogenesis, the potential for particulates to migrate from the perineum and vagina to the peritoneal cavity is indisputable." Do you agree with that? A. No. This is an example of what I was saying earlier. Someone making a very, very strong statement. Indisputable, and yet there's no studies
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	reasons has developed many mechanisms to keep particulate matter and foreign bodies from ascending into the peritoneal cavity. So I would say it's it's not plausible to me. Q. You've seen study data that would indicate that strike that. You have seen study authors who have concluded the opposite, that there is a biologically plausible mechanism by which talc can talcum powder products can translocate from the perineum to the fallopian tubes and ovaries, right? MS. CURRY: Object to the form. THE WITNESS: I'm assuming you I'm assuming you struck your original question because they are making the statements	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	second. 5 Page 4 5. Mm-hmm. Q. Where in the middle of the document where the first word is while. Do you see where I am? A. No. I'm sorry. Can can we use the Q. Right here in the middle, where it says while. A. Give me one second, ma'am. Give me one second. Yes. Q. "While there exists no direct proof of talc and ovarian carcinogenesis, the potential for particulates to migrate from the perineum and vagina to the peritoneal cavity is indisputable." Do you agree with that? A. No. This is an example of what I was saying earlier. Someone making a very, very strong statement.

PageID: 193830 Kevin Holcomb, M.D.

	Keviii hoid		
	Page 426		Page 428
1	the ovaries. And yet Dr. Epstein is	1	Q. You don't recall that?
2	saying it's indisputable.	2	A. No. If you can just point
3	So that's not a judgment	3	it out to me again.
4	call. That's not reasonable doctors	4	Q. Just so I'm clear, you
5	having different opinions. That's just	5	disagree with the position of the FDA as
6	wrong. It can't be indisputable without	6	indicated in the April 1st, 2014, paper
7	a single study showing its ability.	7	on migration, right?
8	Q. You you disagree with FDA	8	A. I'm I'm disagreeing again
9	on the issue of migration being	9	with a Dr. Steven Musser, Ph.D., who is
10	indisputable, correct?	10	the deputy director for Scientific
11	A. No, I I disagree with	11	Operation Center For Food Safety and
12	Dr. Epstein.	12	Applied Nutrition. That's who I'm
13	Q. And this letter comes from	13	disagreeing with.
14	FDA, right?	14	Q. So going back to the Health
15	A. Written by Dr. Epstein,	15	Canada which we've previously marked as
16	right?	16	Exhibit 11.
17	Q. Right. And	17	Do you see starting at
18	A. I'm sorry, no, it's written	18	Pages 19 through 21, the study authors of
19	by it seems to be written by Steven	19	the Health Canada assessment are
20	Musser.	20	analyzing the scientific evidence in the
21	Q. Right. It's written to	21	context of the Bradford Hill criteria?
22	Dr. Epstein.	22	A. Is there a specific area
23	A. It's written to Dr so I	23	you'd like me to read or?
24	guess I'm disagreeing with Steven M.	24	•
2 1	guess i'm disagreeing with Steven Wi.	24	Q. No.
	Page 427		Page 429
1	Musser, Ph.D., who I I don't even know	1	Do you do you see that
2	what area of practice he's he's the	2	that's what that portion of the document
3	director of operations for Center of Food	3	is doing? It's an analysis of the
4	Safety and Applied Nutrition.	4	evidence in the context of the Bradford
5	I I don't know if he	5	Hill criteria.
6	knows more about the female genital tract	6	Is that true?
7	than I do, but my my guess is probably	7	A. They are addressing
8	not. And if he's calling it indisputable	8	translocation in this section. I I
9	in the absence of any study showing that	9	assume that's part of a larger
10	it happens, that by definition is just	10	Q. Doctor, is is strength of
11	wrong.	11	the association a criteria of Bradford
12	Q. Doctor, you would agree,	12	Hill?
13	would you not, that in the Health Canada,	13	A. Yes.
14	the study authors, as part of the	14	Q. And consistency is a
15	Bradford Hill have concluded that there	15	criteria of Bradford Hill?
16	is a biologically plausible mechanism by	16	A. Yes. Which makes me think
17	which talcum powder products can migrate	17	I'm looking at a different page.
18	from the perineum to the ovaries?	18	I'm sorry, which page are
19	MS. CURRY: Object to the	19	you on?
20	form.	20	Q. 19 through 20.
21	THE WITNESS: I'd have	21	A. 19.
22	I'd have to read through it again.	22	Q. Specificity as an aspect
23	Can you point it to me?	23	of
24	BY MS. GARBER:	24	A. Oh, down at the bottom. I'm

PageID: 193831 Kevin Holcomb, M.D. Page 430 Page 432 1 sorry. I was looking someplace else. 1 "The presence of talc in the ovaries has 2 If you can just give me some 2 been documented," and they cite to the 3 idea when we turn the page, if you're 3 Heller 1996 paper, correct? talking top or bottom, I can probably get 4 4 A. True. 5 there faster. 5 Q. And they go on to say, "This 6 evidence" -- "This evidence of retrograde Q. Doctor, Pages 19 through 21, 6 7 the authors of Health Canada are 7 transport supports the biologic 8 plausibility of the association between analyzing the scientific evidence in the 8 9 context of the Bradford Hill aspects or 9 perineal talc application and ovarian 10 criteria, are they not? 10 exposure; however, the specific 11 A. Yes. 11 mechanisms in the cascade of molecular 12 O. Thank you. And if you turn 12 events by which talc cause ovarian cancer 13 to Page 20 -- sorry, Page 21, under the have not been identified." And then they 13 heading of "Biologic Plausibility." You 14 14 cite to Taher 2018. 15 agree that that's one of the aspects of 15 Did I read that correctly? Bradford Hill, right? 16 16 A. You read it correctly, yes. 17 A. Yes. And the first line 17 Q. And Doctor, the Saed 2019 they have is, "Particles of talc are 18 paper does, in fact, provide the 18 hypothesized to migrate into the pelvis." 19 19 molecular events by which talc can cause 20 And that's very different from the 20 ovarian cancer. Can we agree with that? 21 statement of the other doctor who said MS. CURRY: Object to the 21 22 it's indisputable. 2.2 form. 2.3 MS. GARBER: Motion to 23 THE WITNESS: No. 24 strike as nonresponsive. 24 BY MS. GARBER: Page 431 Page 433 1 BY MS. GARBER: 1 Q. Okay. You have read the 2 Q. Doctor, did I ask you a 2 Saed 2019 paper now? 3 3 A. I have. question? 4 4 Q. Not at the time of your A. No. 5 Q. Should I get my time back 5 report, but you have? 6 that you just wasted? 6 MS. CURRY: Object to the 7 7 A. It's a small amount of time. form. 8 8 THE WITNESS: I have. MS. CURRY: Object to the 9 9 BY MS. GARBER: form. 10 10 Q. Did it provide a molecular BY MS. GARBER: Q. All day long it's not a 11 basis by which talc can cause ovarian 11 12 small amount of time, is it, Doctor? 12 cancer? 13 So let me ask you this, 13 A. It proposed a theory without proving it. So when you say provide, I'm under the biologic plausibility section 14 14 of the Bradford Hill analysis as 15 assuming you mean that it proposed a 15 conducted by Health Canada, the study 16 theory and then showed that that -- that 16 17 authors indicate that, "Particles of talc 17 molecular change actually transformed are hypothesized to migrate into the 18 cells and causes cancer. 18 19 Q. You used the word "prove." pelvis and ovarian tissue, causing 19

So the study provided statistically

A. I disagree.

significant findings of an association in

support of the experiment hypothesis,

Page 110 of 190

20

21

22

23

24

correct?

20

21

22

23

24

right?

A. Yes.

irritation and inflammation."

I read that correctly,

Q. The authors go on to say,

PageID: 193832 Kevin Holcomb, M.D.

		1	
	Page 434		Page 436
1	MS. CURRY: Object to the	1	of
2	form.	2	A. I'd have to look at it
3	THE WITNESS: I disagree.	3	again.
4	If the hypothesis is to say that	4	Q. Okay. And we'll do that.
5	inflammation was the cause of	5	So you see at the end of the
6	ovarian cancer, and in your study	6	Bradford Hill analysis and the Health
7	you prove something like CA-125	7	Canada assessment, the authors conclude
8	goes up, and you consider that	8	that the data are indicative of a causal
9	proof of your hypothesis, I'd have	9	effect, right?
10	to say that's not the case.	10	A. That's what they state, yes.
11	BY MS. GARBER:	11	Q. And so the authors have
12	Q. Doctor, was that the only	12	found that there is a biologically
13	finding of the Saed 2019 paper?	13	plausible mechanism by which talc can
14	A. I'd be happy to look at the	14	migrate and tale can induce inflammation,
15	rest of it.	15	correct?
16	Q. Well, you seem to remember	16	MS. CURRY: Object to the
17	the CA-125 that was a corollary finding,	17	form.
18	wasn't it?	18	THE WITNESS: The authors
19	MS. CURRY: Object to the	19	believe that Heller's findings are
20	form.	20	evidence of retrograde
21	THE WITNESS: If you have	21	translocation of talc.
22	the paper, again, I'd be happy to	22	And that is a big
23	look at the others.	23	assumption. And so I can
24	BY MS. GARBER:	24	understand how they would put
	Page 435		Page 437
1	Q. Can you think of any other	1	those things together. But
2	molecular findings that were reported?	2	there's no proof in Heller's study
3	A. I remember	3	where the talc particles came
4	Q. For instance ROS or NOS	4	from.
5	increasing with talc application?		
6		5	And so they're saying this
	MS. CURRY: Object to the	6	And so they're saying this evidence of retrograde transports
7	form.	6 7	And so they're saying this evidence of retrograde transports supports biologic plausibility.
8	form. THE WITNESS: I remember	6 7 8	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't
8 9	form. THE WITNESS: I remember and again, if you have the paper	6 7 8 9	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and
8 9 10	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But	6 7 8 9 10	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to
8 9 10 11	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement	6 7 8 9 10 11	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is
8 9 10 11 12	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species	6 7 8 9 10 11 12	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible.
8 9 10 11 12 13	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence	6 7 8 9 10 11 12 13	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are
8 9 10 11 12 13	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were	6 7 8 9 10 11 12 13 14	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing
8 9 10 11 12 13 14 15	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls	6 7 8 9 10 11 12 13 14 15	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined
8 9 10 11 12 13 14 15	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration.	6 7 8 9 10 11 12 13 14 15 16	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport.
8 9 10 11 12 13 14 15 16 17	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration. And then with the next	6 7 8 9 10 11 12 13 14 15 16 17	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport. BY MS. GARBER:
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8 9 10 11 12 13 14 15 16 17 18	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration. And then with the next concentration, it actually went back down. And yet, he concluded	6 7 8 9 10 11 12 13 14 15 16 17 18	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport. BY MS. GARBER: Q. Doctor, you have not reviewed the Zervomanolakis or the Kunz
8 9 10 11 12 13 14 15 16 17 18 19 20	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration. And then with the next concentration, it actually went back down. And yet, he concluded that reactive oxygen species was	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport. BY MS. GARBER: Q. Doctor, you have not reviewed the Zervomanolakis or the Kunz paper with regard to genital tract
8 9 10 11 12 13 14 15 16 17 18 19 20 21	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration. And then with the next concentration, it actually went back down. And yet, he concluded that reactive oxygen species was actually going up.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport. BY MS. GARBER: Q. Doctor, you have not reviewed the Zervomanolakis or the Kunz paper with regard to genital tract peristalsis, have you?
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration. And then with the next concentration, it actually went back down. And yet, he concluded that reactive oxygen species was actually going up. BY MS. GARBER:	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport. BY MS. GARBER: Q. Doctor, you have not reviewed the Zervomanolakis or the Kunz paper with regard to genital tract peristalsis, have you? A. No.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration. And then with the next concentration, it actually went back down. And yet, he concluded that reactive oxygen species was actually going up. BY MS. GARBER: Q. What was the conclusion of	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport. BY MS. GARBER: Q. Doctor, you have not reviewed the Zervomanolakis or the Kunz paper with regard to genital tract peristalsis, have you? A. No. Q. Are you aware that there is
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	form. THE WITNESS: I remember and again, if you have the paper I'd rather look at it again. But I remember him making a statement that reactive oxygen species actually went up in the presence of talc when in fact they were actually lower than the controls except for one concentration. And then with the next concentration, it actually went back down. And yet, he concluded that reactive oxygen species was actually going up. BY MS. GARBER:	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	And so they're saying this evidence of retrograde transports supports biologic plausibility. They cite a study that doesn't prove retrograde transport and says that is what I'm using to support what I believe is biologically plausible. So yes, these authors are making a statement and then citing to something that never examined retrograde transport. BY MS. GARBER: Q. Doctor, you have not reviewed the Zervomanolakis or the Kunz paper with regard to genital tract peristalsis, have you? A. No.

PageID: 193833 Kevin Holcomb, M.D.

Page 438 Page 440			,	
Course I am. Does that mean that talk is able to retrograde translocate? I'm not sure. This is what often happens. People cite studies that don't prove what the—the point that they're trying to make.		Page 438		Page 440
Commonstrate Comm	1	during the woman's cycle?	1	A. True. And I've explained
3 Form. 3 Q. Thank you. Lefs talk about Lefs talk abou				
THE WITNESS: Yes. Of course I am. Does that mean that tale is able to retrograde translocate? I'm not sure. This is what often happens. People cite studies that don't prove what the—the point that they're trying to make. BY MS. GARBER: Q. Okay. There's been data that have shown that particulate in a woman's genital tract can travel retrograde from the vagina to the fallopian tubes and the ovaries. A. If you put her—if you put her a little oxytocin and —yes, under the relited into the rein the lithotomy position and give those very unnatural conditions, there's studies supporting that. What I'm saying is I don't Page 439 Page 439 Assee a single study—and maybe you can quote one for me—where they dusted the perineum of women and shown that that tale gets to the voaries. Q. Based on what we know about tale and its carcinogenicity that would be an unethical study to conduct at this point, wouldn't it? MS. CURRY: Object to the form. THE WITNESS:—study you'd like to review,? BY MS. GARBER: Q. No, I'm just asking you, A. I have not seen studies that indicate tale can induce inflammation? A. I have not seen studies that indicate tale can induce inflammation? A. I have not seen studies that indicate tale can induce inflammation? A. I have not seen studies that indicate tale can induce inflammation? A. I have not seen studies that indicate tale can induce inflammation? A. I did—it's on my reliance list. If we can pull it out I'd be glad to go through it again with you. Let's talk doaut and peer-reviewed studies that indicate a biologically plausible mechanism by which tale can induce inflammation? A. I did—it's on my reliance list. If we can pull it out I'd be glad to go through it again with you. A. I did—it's on my reliance list. If we can pull it out I'd be glad to go through it again with you. A. I did—it's on my reliance list. If we can pull it out I'd be glad to go through it again with you. A. I did—it's on my reliance list. If we can pull it out I'd be glad to go through it again with you.				
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in addition Health Canada, who have 20 not a biologically plausible mechanism to concluded that there is a biologically 21 support talc can migrate from the		•	1	
concluded that there is a biologically 21 support talc can migrate from the		-		
			1	
22 plausible mechanism by which tale can 22 genitals to the ovaries and tubes because			I	
	フラ	nlausible mechanism by which tale can	1 / /	dentials to the ovaries and times necause
\mathcal{E}		plausible mechanism by which tale can		
Mis. Colder. Coject to the	22 23 24	plausible mechanism by which talc can migrate from the genitals to the ovaries, true?	22 23 24	of the tubal ligation data? MS. CURRY: Object to the

Kevin Holcomb, M.D.

Page 442 Page 444 1 1 A. I'm assuming this is the form. 2 THE WITNESS: Please repeat 2 results of the meta-analysis that hasn't 3 3 that again. been published? 4 BY MS. GARBER: 4 O. Yes. 5 5 A. Yes, that's what they say. Q. Sure. Q. All right. And then a 6 Do you base your opinion 6 that talcum powder products don't migrate 7 7 couple lines down it says, "This might be to the ovaries based on tubal ligation 8 8 attributed to the fact that tubal 9 and hysterectomy data? 9 ligation is usually performed at an MS. CURRY: Object to the 10 10 earlier age, thus preventing entry of talc into the reproductive tract earlier 11 form. 11 12 THE WITNESS: No. I base 12 and prolonged exposure to talc, compared to hysterectomy that is performed later 13 the fact that I don't have any 13 in life where higher exposure has already 14 proof of talc being able to 14 15 migrate to the ovaries under 15 taken place." 16 normal situations. The tubal 16 It goes on to say, "In a ligation data and the recent meta-analysis," and then it cites 17 17 70, "The authors reported a negative inconsistency of its protective 18 18 19 impact makes me question even 19 association with tubal ligation and 20 hysterectomy with risk of ovarian 20 further. 21 BY MS. GARBER: 21 cancer." Q. Doctor, if you could pull 2.2 2.2 Did I read that correctly? 23 out Taher 2018, Page 2. Do you see under 23 A. Yes, you've read everything 24 the results there -very well so far. 24 Page 443 Page 445 1 A. I'm sorry -- Page 2. 1 Q. All right. 2 Q. -- that the study authors 2 A. It's that private schooling. 3 3 Q. And -- and the authors go on indicate that the most recent 4 to say as to the study that the authors 4 meta-analysis found a negative 5 5 there stated a highly plausible mechanism association with tubal ligation. That's 6 what the authors say, right? 6 for the association --7 A. This is an unpublished, 7 A. I'm sorry -- yes. As 8 8 suggested by the author. Suggested. un-peer-reviewed paper. 9 9 Q. That's what the authors say Q. Right. "Involving the 10 blocking of ascent of such agents such as 10 in this paper, true? talc to the ovaries." 11 A. In this unpublished 11 12 12 un-peer-reviewed paper, yes. Again, you disagree with 13 Q. That's what the authors say, 13 these study -- with these two study 14 authors that indicate that talc can 14 right? 15 ascend the female genital tract, right? 15 A. In this unpublished peer-reviewed paper, correct. 16 A. It is a suggestion by the 16 17 O. Turn to Page 33 please, 17 authors. It's not a proven point. These Doctor. That the first full -- second 18 are conjecture and theory by those 18 19 authors. And, yes, I would say full paragraph. It indicates, "Women 19 apparently my bar is a little bit higher. 20 with prior ligation of the fallopian 20 21 tubes showed a significant reduction in 21 I would like to see a study where you 22 risk," and then they cite a statistically 22 actually put talc on the perineum the way people put talc on the perineum and show 23 significant odds ratio, right, against 23 24 ovarian cancer? 24 that it gets to the ovaries. So, yes.

PageID: 193835 Kevin Holcomb, M.D.

	Page 446		Page 448
1	And and I find, outside	1	fact that the NSAID data do not support
2	of this unpublished meta-analysis, when	2	reduction of risk of ovarian cancer?
3	you get to the individual studies it	3	MS. CURRY: Object to the
4	becomes much less consistent on this	4	form.
5	protective impact of tubal ligation with	5	THE WITNESS: The main
6	regard to talc.	6	reason why I hold that opinion is
7	MS. GARBER: Objection.	7	because I have seen no evidence of
8	Motion to strike as nonresponsive.	8	chronic inflammation in the
9	BY MS. GARBER:	9	genital tract from perineal use of
10	Q. Doctor, if you could turn	10	talc.
11	back to Health Canada and Page 18. And	11	In the Heller study, in the
12	I'll just point to where I'm reading,	12	case that they looked for evidence
13	Doctor. Right here.	13	of clinical information, and
14	Do you see where I am?	14	and we know what it looks like
15	Doctor, it reads: "There is	15	with talc, because there's years
16	support for an association of	16	of using it in pleurodesis, it
17	inflammation and increased risk of	17	causes granulomas.
18	ovarian cancer." And it cites to the	18	I we we present every
19	National Academy of Sciences, Engineering	19	STIC lesion, a serous tubular
20	and Medicine in 2016 in the Rasmussen	20	intraepithelial carcinoma at
21	paper.	21	Cornell. We present it as part of
22	Doctor, that's what these	22	our tumor board. And so I've seen
23	study authors who did an analysis	23	a lot of STIC lesions. I've seen
24	A. Can can I'm sorry,	24	a lot of p53 signatures.
			1 0
	Page 447		Page 449
1	I'll let you finish.	1	I've not ever seen a case
2	Q concluded about the mode	2	with a granuloma or any evidence
3	of action, correct?	3	of granulomatous inflammation or
4	MS. CURRY: Object to the	4	any other sort of inflammation,
5	form.	5	and so that's the real the
6	THE WITNESS: Yes, and	6	the other thing that you're
7	interestingly, I I would be	7	mentioning, the inconsistency of
8	glad to look at the Rasmussen	8	whether antiinflammatories reduce
9	paper. I believe it was actually	9	the risk of ovarian cancer just
10	a paper that was negative, that	10	further confirms my my belief.
11	there was a paper that didn't show	11	But it's really the fact
		1	<u>•</u>
12	a reduce in the risk of ovarian	12	that I've seen the precursor
12 13	cancer with with	13	that I've seen the precursor lesion for high grade serous
12 13 14	cancer with with antiinflammatories.	13 14	that I've seen the precursor lesion for high grade serous carcinoma, and I've never seen it
12 13 14 15	cancer with with antiinflammatories. BY MS. GARBER:	13 14 15	that I've seen the precursor lesion for high grade serous carcinoma, and I've never seen it in conjunction with any evidence
12 13 14 15 16	cancer with with antiinflammatories. BY MS. GARBER: Q. And, Doctor, I'm glad you	13 14 15 16	that I've seen the precursor lesion for high grade serous carcinoma, and I've never seen it in conjunction with any evidence of granulomatous inflammation.
12 13 14 15 16	cancer with with antiinflammatories. BY MS. GARBER: Q. And, Doctor, I'm glad you mentioned antiinflammatories. Because is	13 14 15 16 17	that I've seen the precursor lesion for high grade serous carcinoma, and I've never seen it in conjunction with any evidence of granulomatous inflammation. BY MS. GARBER:
12 13 14 15 16 17	cancer with with antiinflammatories. BY MS. GARBER: Q. And, Doctor, I'm glad you mentioned antiinflammatories. Because is the other basis for your opinion that	13 14 15 16 17 18	that I've seen the precursor lesion for high grade serous carcinoma, and I've never seen it in conjunction with any evidence of granulomatous inflammation. BY MS. GARBER: Q. Okay. Let's take both of
12 13 14 15 16 17 18 19	cancer with with antiinflammatories. BY MS. GARBER: Q. And, Doctor, I'm glad you mentioned antiinflammatories. Because is the other basis for your opinion that talc, while it increases inflammation,	13 14 15 16 17 18 19	that I've seen the precursor lesion for high grade serous carcinoma, and I've never seen it in conjunction with any evidence of granulomatous inflammation. BY MS. GARBER: Q. Okay. Let's take both of those, because I think you mentioned two
12 13 14 15 16 17 18 19 20	cancer with with antiinflammatories. BY MS. GARBER: Q. And, Doctor, I'm glad you mentioned antiinflammatories. Because is the other basis for your opinion that talc, while it increases inflammation, doesn't cause ovarian talcum powder	13 14 15 16 17 18 19 20	that I've seen the precursor lesion for high grade serous carcinoma, and I've never seen it in conjunction with any evidence of granulomatous inflammation. BY MS. GARBER: Q. Okay. Let's take both of those, because I think you mentioned two different things there.
12 13 14 15 16 17 18 19 20 21	cancer with with antiinflammatories. BY MS. GARBER: Q. And, Doctor, I'm glad you mentioned antiinflammatories. Because is the other basis for your opinion that talc, while it increases inflammation, doesn't cause ovarian talcum powder strike that.	13 14 15 16 17 18 19 20 21	that I've seen the precursor lesion for high grade serous carcinoma, and I've never seen it in conjunction with any evidence of granulomatous inflammation. BY MS. GARBER: Q. Okay. Let's take both of those, because I think you mentioned two different things there. As to what you see when you
12 13 14 15 16 17 18 19 20 21 22	cancer with with antiinflammatories. BY MS. GARBER: Q. And, Doctor, I'm glad you mentioned antiinflammatories. Because is the other basis for your opinion that talc, while it increases inflammation, doesn't cause ovarian talcum powder strike that. Another basis for your	13 14 15 16 17 18 19 20 21 22	that I've seen the precursor lesion for high grade serous carcinoma, and I've never seen it in conjunction with any evidence of granulomatous inflammation. BY MS. GARBER: Q. Okay. Let's take both of those, because I think you mentioned two different things there. As to what you see when you look at the tissue pathology, that's
12 13 14 15 16 17 18 19 20 21	cancer with with antiinflammatories. BY MS. GARBER: Q. And, Doctor, I'm glad you mentioned antiinflammatories. Because is the other basis for your opinion that talc, while it increases inflammation, doesn't cause ovarian talcum powder strike that.	13 14 15 16 17 18 19 20 21	that I've seen the precursor lesion for high grade serous carcinoma, and I've never seen it in conjunction with any evidence of granulomatous inflammation. BY MS. GARBER: Q. Okay. Let's take both of those, because I think you mentioned two different things there. As to what you see when you

PageID: 193836 Kevin Holcomb, M.D.

	Page 450		Page 452
1	slides?	1	at the time of precancer, I've not
2	A. Yes.	2	seen it. And if it's not there in
3	Q. And	3	the precancerous phase, when was
4	A. I would argue in in	4	it there?
5	ovarian cancer cases as well, I don't see	5	BY MS. GARBER:
6	granulomas.	6	Q. Is it your opinion that all
7	Q. You mean macroscopically	7	epithelial ovarian cancers begin in the
8	when you're doing surgery?	8	fallopian tube?
9	A. No, I mean microscopically.	9	A. No.
10	I also scrub out and look at all my	10	Q. Okay. Let's talk about the
11	frozen sections. And we present every	11	NSAIDs, the NSAID data.
12	new patient in a multi-disciplinary tumor	12	You've looked at some
13	board where we look at the slides. So	13	studies about NSAIDs and their effect
14	there's not an ovarian cancer patient	14	upon the risk of
15	that I take care of that I haven't seen	15	A. Yes.
16	her histologic slides.	16	Q ovarian cancer right?
17	Q. Have you seen testimony	17	A. Yes, I have.
18	where there is strike that.	18	Q. Would you agree with me that
19	Have you seen data that	19	the aspirin data seem to indicate a
20	would suggest that you're not seeing	20	decreased risk in ovarian cancer?
21	evidence of acute inflammation because	21	MS. CURRY: Object to the
22	the talc and its effects have been	22	form.
23	subsumed by tumor? In other words,	23	THE WITNESS: I'm not sure
24	that's a snapshot in time when there's	24	if that's consistent in every
			Daga 452
			Page 453
1		1	
1 2	carcinogenic transformation, and what	1 2	in every study. I just want to
	carcinogenic transformation, and what you're seeing over here years later		in every study. I just want to get to my report in that area, if
2	carcinogenic transformation, and what you're seeing over here years later you're not going to see the evidence of	2	in every study. I just want to
2	carcinogenic transformation, and what you're seeing over here years later you're not going to see the evidence of the chronic inflammation, correct?	2	in every study. I just want to get to my report in that area, if that's okay. BY MS. GARBER:
2 3 4	carcinogenic transformation, and what you're seeing over here years later you're not going to see the evidence of	2 3 4	in every study. I just want to get to my report in that area, if that's okay.
2 3 4 5	carcinogenic transformation, and what you're seeing over here years later you're not going to see the evidence of the chronic inflammation, correct? MS. CURRY: Object to the form.	2 3 4 5	in every study. I just want to get to my report in that area, if that's okay. BY MS. GARBER: Q. Okay. Doctor, shall we go
2 3 4 5 6	carcinogenic transformation, and what you're seeing over here years later you're not going to see the evidence of the chronic inflammation, correct? MS. CURRY: Object to the	2 3 4 5 6	in every study. I just want to get to my report in that area, if that's okay. BY MS. GARBER: Q. Okay. Doctor, shall we go off the record? A. You can. It's not going to
2 3 4 5 6 7	carcinogenic transformation, and what you're seeing over here years later you're not going to see the evidence of the chronic inflammation, correct? MS. CURRY: Object to the form. THE WITNESS: Maybe you	2 3 4 5 6 7	in every study. I just want to get to my report in that area, if that's okay. BY MS. GARBER: Q. Okay. Doctor, shall we go off the record?
2 3 4 5 6 7 8	carcinogenic transformation, and what you're seeing over here years later you're not going to see the evidence of the chronic inflammation, correct? MS. CURRY: Object to the form. THE WITNESS: Maybe you misunderstood my description of	2 3 4 5 6 7 8	in every study. I just want to get to my report in that area, if that's okay. BY MS. GARBER: Q. Okay. Doctor, shall we go off the record? A. You can. It's not going to take me long.
2 3 4 5 6 7 8 9	carcinogenic transformation, and what you're seeing over here years later you're not going to see the evidence of the chronic inflammation, correct? MS. CURRY: Object to the form. THE WITNESS: Maybe you misunderstood my description of what we do. I said look at every	2 3 4 5 6 7 8	in every study. I just want to get to my report in that area, if that's okay. BY MS. GARBER: Q. Okay. Doctor, shall we go off the record? A. You can. It's not going to take me long. THE VIDEOGRAPHER: The time
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PageID: 193837 Kevin Holcomb, M.D.

	Page 454		Page 456
1	association between non-aspirin	1	cancer to take an NSAID, Tylenol well,
2	NSAID use and ovarian cancer.	2	Tylenol really hasn't shown much
3	BY MS. GARBER:	3	difference. But even aspirin.
4	Q. Doctor, did I have a	4	That's different from a
5	question pending?	5	woman who has or a man who has
6	A. You had asked me yeah.	6	familial adenomatous polyposis. There's
7	You did. That's why we went off.	7	certain situations where the data is so
8	Remember I was looking for the	8	strong that you can prevent cancer, it's
9	Q. Okay. Have you seen the	9	actually recommended to use aspirin to
10	I don't know how to pronounce it	10	prevent it. And we don't do that in GYN
11	Q-I-A-O, 2018, study with regard to	11	oncology.
12	with regard to aspirin and its effects on	12	•
13	ovarian cancer?	13	And so I'd have to ask you, not only do I not believe this, but why
14	A. I have not.	14	
15	Q. Have you seen Trabert 2013	15	is the GYN oncology not recommending
16		16	NSAID and aspirin use if it is so proven that it decreases ovarian cancer risk?
17	study wherein the study authors found		
18	that use of antiinflammatory aspirin was associated with a reduction of risk of	17	It would be
19		18	MS. GARBER: Objection.
	ovarian cancer?	19	Objection. Motion to strike as
20	A. I believe that	20	nonresponsive.
21	MS. CURRY: Object to the	21	BY MS. GARBER:
22	form.	22	Q. Doctor, you're talking in
23	THE WITNESS: I believe	23	paragraphs, and you're not answering my
24	that's in my my report that's	24	question. I'm going to just ask you to
	Page 455		Page 457
1	saying to show the	1	indulge me, please.
2	inconsistencies. I gave you two	2	MS. CURRY: I disagree.
3	examples of studies, one including	3	BY MS. GARBER:
4	meta-analysis, and showing no	4	Q. My question
5	reduced ovarian cancer, and the	5	MS. CURRY: That was
6	studies that you mentioned that	6	directly responsive to the
7	show that there was a reduction.	7	question.
8	BY MS. GARBER:	8	BY MS. GARBER:
9	Q. Do you agree, Doctor, that	9	Q. My question was, do you
10	there are data on both sides for both	10	agree that there are data for aspirin and
11	aspirin and nonsteroidal	11	NSAIDs that go both ways, they decrease
12	antiinflammatories that go both ways? In	12	the risk, and other studies do not show
13	other words, there's some data that show	13	that?
14	a decreased risk of ovarian cancer and	14	A. The reason why for speaking
15	some data that do not for both aspirin	15	in paragraphs
16	and NSAIDs?	16	Q. I didn't ask you why.
17	A. I do believe that if there	17	A is because it's still
18	was powerful enough data to support the	18	clearly stated in my report
19	use of antiinflammatories to prevent the	19	Q. Doctor, I didn't ask you why
20		20	
21	deadliest GYN malignancy, this would be a	20	you're speaking in paragraphs.
22	common recommendation for patients to use. We don't tell BRCA mutation	21	And I gave you the examples. And we just
23		22	And I gave you the examples. And we just
	patients to take NSAIDs. We don't tell	l	went through them one by one. I gave you two examples where it did, and two
24	the women at the highest risk of ovarian	24	two examples where it did, and two

PageID: 193838 Kevin Holcomb, M.D.

T		1	
	Page 458		Page 460
1	examples it didn't. And then you follow	1	cancer.
2	up a question	2	Do you recall that data?
3	Q. If you're not if you're	3	MS. CURRY: Object to the
4	not going to answer my question	4	form.
5	A. Because	5	THE WITNESS: Yes.
6	Q I think we're going to	6	BY MS. GARBER:
7	have to call the Court because we're	7	Q. Why did you cite those data?
8	nearly done, and you're talking in	8	A. Couple reasons.
9	paragraphs and you're not responding to	9	Penninkilampi, in trying to explain the
10	my question.	10	way exactly what were you trying to
11	A. But you're asking	11	explain, he's saying that I know it's
12	MS. SHARKO: The order	12	inconsistent, the data on nonsteroidals.
13	doesn't allow you to criticize his	13	He's saying, I know it doesn't look in
14	answer. So please stop.	14	support of my argument for my biologic
15	THE WITNESS: You're asking	15	plausibility.
16	questions that	16	But maybe maybe NSAIDs
17	MS. O'DELL: That's not	17	don't work because they don't they
18	true, Susan. Completely not true.	18	only they prevent they work on COX.
19	THE WITNESS: have clear	19	And COX expression is low in these cells
20	evidence. You're saying have I	20	anyway. And that's why you don't see a
21	I cited in my report data that	21	more impressive so he's explaining why
22	went both ways. And then you turn	22	this data that you're saying is is as
23	around and ask me, do you believe	23	unimpressive as it is.
24	that data goes both ways? And I	24	And so I read in
	Page 459		Page 461
1	cited.	1	Dr. Saenz her deposition, she
2	BY MS. GARBER:	2	mentioned some basic science research by
3	Q. I never said in your report.	3	Dr. Dineo Khabele, who I happened to have
4	Do you agree that there are	4	been a resident with back at Cornell
5	peer-reviewed published studies on the	5	years ago.
6	topic of anti-inflammatories, aspirin and	6	And so that piqued my
7	NSAIDs NSAIDs, that go both ways, some	7	interest. And I was curious to see what
8	data show a decreased risk and other data	8	is she doing in her lab, and so I
9	do not?	9	actually went back and I looked at the
10	MS. CURRY: Object to the	10	studies that she was showing to see that
11	form.	11	Penninkilampi actually had misstated the
12	BY MS. GARBER:	12	fact that Type 2 tumors, high grade
13	Q. Do you agree?	13	serous carcinomas, actually expressed
14	A. I do agree. And that's the	14	COX-1. And Type 1 expressed COX-2.
15	reason the fact that it's gone both	15	So this idea that inhibitors
16	ways is the reason why we do not	16	of COX, that NSAIDs, that they don't
17	recommend nonsteroidal use or aspirin use	17	work, or aspirin doesn't work because
18	to prevent it.	18	there's low expression of this thing in
19	Q. And Doctor, you don't	19	the first place, that doesn't make sense.
20	know strike that.	20	If if you'd have to explain
	You cited on your	21	something else.
21			
22	supplemental report some data that were	22	Maybe it doesn't make a
22 23	cited in the Penninkilampi paper about	23	difference because ovarian cancer is not
22		1	

PageID: 193839 Kevin Holcomb, M.D.

1 Q. You didn't read the Wilson 2 2015 paper with regard to COX COX 2 3 expression in epithelial ovariant tissue, 3 4 did you? 4 4 MS. CURRY: Object to the 6 form. 5 THE WITNESS: Whose whose 8 paper? I'm sorry. 8 7 MS. CURRY: I disagree. 9 MS. CURRY: I disagree. 9 MS. CURRY: I disagree to a re not occasions when the Elw was in use, so MS. CURRY: Well, I think you are mischaracterizing what I happened today. 12 MS. O'DELL: That is not true. 14 MS. CURRY: I'm just You just 18 said Wilson 2000 MS. CURRY: I'm just You you're referring to you just 22 and let me explain. It's not the third time. 24 MS. O'DELL: It's the third time. 25 MS. CURRY: Brage 463		Page 462		Page 464
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did you? MS. CURRY: Object to the form. THE WITNESS: Whose whose paper? I'm sorry. Wilson, et al.? A. If you can show it to me I'd let you know. I don't show something to the witness. MS. CURRY: Well, I think you are mischaracterizing what I happened today. MS. CURRY: Well, I think you are mischaracterizing what I happened today. MS. O'DELL: That is not true. MS. CURRY: Well, I think you are mischaracterizing what I happened today. MS. O'DELL: That is not true. MS. CURRY: I'm just you just said Wilson 2000 18 said Wilson 2000				
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5 MS. CURRY: Object to the 6 form. 7 THE WITNESS: Whose whose 8 paper? I'm sorry. 9 BY MS. GARBER: 9 BY MS. GARBER: 10 Q. Wilson, et al.? 11 A. If you can show it to me I'd 11 let you know. I don't think so. 12 let you know. I don't think so. 13 MS. O'DELL: Counsel, please 14 don't show something to the 15 wincess. 16 MS. CURRY: I'm just 17 you're referring to you just 18 said Wilson 2000 18 MS. CURRY: I'm just 19 MS. O'DELL: Let me finish. 19 MS. O'DELL: Let me finish. 19 MS. CURRY: Hang on a minute 20 That's the third time 21 MS. CURRY: Hang on a minute 21 and let me explain. It's not the 22 and let me explain. It's not the 23 third time. 24 MS. O'DELL: It's the third 25 MS. O'DELL: It's the third 26 MS. CURRY: Well, I think 27 MS. O'DELL: That is not true. 28 WMS. GARBER: 29 MS. GARBER: 20 Doctor, is the basis for your opinion that talc does not induce cancer based on pleurodesis data? 21 MS. CURRY: Hang on a minute 22 MS. CURRY: Bust that's 23 THE WITNESS: No. 24 MS. O'DELL: It's the third 26 MS. CURRY: Well, I think 27 MS. CURRY: Well, I think 28 MS. O'DELL: That is not true. 29 MS. GARBER: 20 Doctor, is the basis for your opinion that talc does not induce cancer based on pleurodesis data? 20 MS. CURRY: Bust that's 21 MS. O'DELL: It's the third 22 haven't said anything. But that's 23 not appropriate 24 MS. GARBER: 25 Page 463 26 Pleurodesis has been shown to increate inflammation in pleural tissue, correate inflammation in ple		•	1	
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19 you're not giving any further 19 Q. I will if you don't stop				· ·
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20 information about the article 20 talking in paragraphs	20	information about the article.	20	· · · · · · · · · · · · · · · · · · ·
			1	•
			1	
23 list of items considered that 23 pleurodesis, talc pleurodesis?			1	-
24 we've produced to you today. 24 A. Can you produce it for me	∠ '1	we ve produced to you today.	²⁴	A. Can you produce it for me so

	Page 466		Page 468
1	I can let you know?	1	Pleural Effusions."
2	Q. I will.	2	(Document marked for
3	While she's pulling that,	3	identification as Exhibit
4	I'll ask you this. You indicate that	4	Holcomb-26.)
5	tale pleurodesis does not induce cancer,	5	BY MS. GARBER:
6	is that fair, what you said?	6	Q. Nonmalignant pleural
7	A. Yes.	7	effusions are what for the lay listener?
8	Q. And the number one	8	MS. CURRY: Object to the
9	indication for talc pleurodesis is	9	form.
10	malignant pleural effusions, right?	10	MS. SHARKO: What exhibit is
11	A. Yes.	11	this now?
12	Q. And so those patients	12	MS. BROWN: 26.
13	already have cancer and are likely end	13	MS. SHARKO: Pardon me?
14	stage, right?	14	MS. BROWN: 26.
15	A. It had been used for years	15	BY MS. GARBER:
16	on patients without malignancy. The	16	Q. What's a nonmalignant
17	reason why it's used on patients	17	pleural effusion?
18	Q. Did you say yes?	18	A. A nonmalignant pleural
19	A. Say this again?	19	effusion is one where you have fluid
20	Q. Did you say yes to my to	20	surrounding the lung but it's not from a
21	my question?	21	cancer.
22	MS. CURRY: Objection.	22	Q. All right. And and this
23	Please don't interrupt him	23	paper is authored by Andrew Ghio and
24	BY MS. GARBER:	24	Victor Roggli.
	Page 467		Page 469
1	Q. Did you say yes to my		
		1	Do you see that?
2	question? I didn't ask you for the	2	Do you see that? MS. CURRY: Object to the
3	question? I didn't ask you for the reason.		MS. CURRY: Object to the form.
3 4	question? I didn't ask you for the reason. A. Your your question is?	2 3 4	MS. CURRY: Object to the form. THE WITNESS: Yes.
3 4 5	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes?	2 3 4 5	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER:
3 4 5 6	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question	2 3 4	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first
3 4 5 6 7	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question again? I want to just repeat it.	2 3 4 5 6 7	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first paragraph, it begins, however, it says,
3 4 5 6 7 8	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question again? I want to just repeat it. Q. I said: "And those patients	2 3 4 5 6	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first paragraph, it begins, however, it says, "However, there should continue to be
3 4 5 6 7 8 9	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question again? I want to just repeat it. Q. I said: "And those patients have cancer and are likely end stage,	2 3 4 5 6 7 8	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first paragraph, it begins, however, it says, "However, there should continue to be concern regarding use of talc for
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3 4 5 6 7 8 9 10 11	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question again? I want to just repeat it. Q. I said: "And those patients have cancer and are likely end stage, right?" And you said: "It has been used for years on patients without	2 3 4 5 6 7 8 9 10 11	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first paragraph, it begins, however, it says, "However, there should continue to be concern regarding use of talc for pleurodesis in individuals with nonmalignant pleural effusions and spontaneous pneumothorax. This dilemma
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3 4 5 6 7 8 9 10 11 12 13 14 15	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question again? I want to just repeat it. Q. I said: "And those patients have cancer and are likely end stage, right?" And you said: "It has been used for years on patients without malignancy. The reason" And then I said: "Did you say yes?"	2 3 4 5 6 7 8 9 10 11 12 13 14 15	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first paragraph, it begins, however, it says, "However, there should continue to be concern regarding use of talc for pleurodesis in individuals with nonmalignant pleural effusions and spontaneous pneumothorax. This dilemma results from a possible increased risk of malignant mesothelioma in those patients treated with talc. Consequently, an
3 4 5 6 7 8 9 10 11 12 13 14 15	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question again? I want to just repeat it. Q. I said: "And those patients have cancer and are likely end stage, right?" And you said: "It has been used for years on patients without malignancy. The reason" And then I said: "Did you say yes?" You said?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first paragraph, it begins, however, it says, "However, there should continue to be concern regarding use of talc for pleurodesis in individuals with nonmalignant pleural effusions and spontaneous pneumothorax. This dilemma results from a possible increased risk of malignant mesothelioma in those patients treated with talc. Consequently, an alternative agent should be employed in
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question again? I want to just repeat it. Q. I said: "And those patients have cancer and are likely end stage, right?" And you said: "It has been used for years on patients without malignancy. The reason" And then I said: "Did you say yes?" You said? A. Yes. In those patients that have malignancy, they are likely end	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first paragraph, it begins, however, it says, "However, there should continue to be concern regarding use of talc for pleurodesis in individuals with nonmalignant pleural effusions and spontaneous pneumothorax. This dilemma results from a possible increased risk of malignant mesothelioma in those patients treated with talc. Consequently, an alternative agent should be employed in any individual without malignancy requiring pleurodesis."
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question again? I want to just repeat it. Q. I said: "And those patients have cancer and are likely end stage, right?" And you said: "It has been used for years on patients without malignancy. The reason" And then I said: "Did you say yes?" You said? A. Yes. In those patients that have malignancy, they are likely end stage. As opposed to the patients who don't have malignancy for years that has	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first paragraph, it begins, however, it says, "However, there should continue to be concern regarding use of talc for pleurodesis in individuals with nonmalignant pleural effusions and spontaneous pneumothorax. This dilemma results from a possible increased risk of malignant mesothelioma in those patients treated with talc. Consequently, an alternative agent should be employed in any individual without malignancy requiring pleurodesis." Did I read that correctly? A. You read that correctly
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	question? I didn't ask you for the reason. A. Your your question is? Q. Did you say yes? A. Can you ask the question again? I want to just repeat it. Q. I said: "And those patients have cancer and are likely end stage, right?" And you said: "It has been used for years on patients without malignancy. The reason" And then I said: "Did you say yes?" You said? A. Yes. In those patients that have malignancy, they are likely end stage. As opposed to the patients who don't have malignancy for years that has been used.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. CURRY: Object to the form. THE WITNESS: Yes. BY MS. GARBER: Q. Okay. In the first paragraph, it begins, however, it says, "However, there should continue to be concern regarding use of talc for pleurodesis in individuals with nonmalignant pleural effusions and spontaneous pneumothorax. This dilemma results from a possible increased risk of malignant mesothelioma in those patients treated with talc. Consequently, an alternative agent should be employed in any individual without malignancy requiring pleurodesis." Did I read that correctly? A. You read that correctly again.

PageID: 193841 Kevin Holcomb, M.D.

1 MS. GARBER: Sorry. 2 THE VIDEOGRAPHER: Thanks. 3 BY MS. GARBER: 4 Q. Doctor, do you think that— 5 that peer-reviewed published data 6 indicate that there is a dose-response 7 with regard to tale and risk of ovarian 8 cancer? 8 didicate that there is a dose-response in a lot of different ways. So I'd have to watch up here because it's too small. 10 dose-response, correct? 11 dose-response, correct? 12 MS. CURRY: Can I show him my version which is — 13 are peer-reviewed studies which show a dose-response, correct? 14 MS. CURRY: Can I show him my version which is — 15 MS. CURRY: Object to the form. 16 form. 17 THE WITNESS: I've seen in the life form. 18 studies that are peer reviewed and published that have only two levels of exposure, and one is lihipher than the other and they 22 call that a dose-response. 22 call that a dose-response. 23 So what I've seen in the liferent ways. So I'd have to agree with you, yes. 24 Penninkilampi does that. 25 Two dose levels and says there's a dose-response. 26 dose-response. 27 (Document marked for different ways. So I'd have to agree with you, yes. 28 Penninkilampi does that. 29 Type for the record then. 20 I'm going to have to watch up here because it's too small. 20 A. I'm going to have to wit it here because it's too small. 21 Limper than the rebecause it's too small. 22 and that have only we life there because it's too small. 23 A. Sure. 24 A. Seen in death of the document. 25 Table 3. 26 A. Sure. 27 The ways. So I'd have to and it is appropriate, but it is a failed in the care of the mean of the document. 28 Table 3. 29 A. Sure. 30 O. If you want, we can look at it here. Do you see Table 3, Doctor? 31 Indicates that with the duration of the mean of the document. 32 Table 3. 33 A. Sure. 34 A. Sure. 35 The VIDEOGRAPHER: We are because it's too small. 36 And so this table is Table and in the record. The time is 6:04 p.m.		Page 470		Page 472
TILE VIDEOGRAPIER: Thanks. BY MS. GARBER: that peer-reviewed published data indicate that there is a dose-response with regard to tale and risk of ovarian cancer? A. I believe that that's one of the weaknesses is it's not consistently shown. D. But you do agree that there are peer-reviewed studies which show a lad dose-response, correct? MS. CURRY: Can I show him were very even with regard to tale and risk of ovarian cancer? MS. CURRY: Can I show him were very very convincing. MS. CURRY: Can I show him were very very convincing. MS. CURRY: Can I show him were very very convincing. MS. CURRY: Can I show him were very very convincing. MS. CURRY: Can I show him were very very convincing. MS. CURRY: Can I show him were very very convincing. MS. CURRY: Can I show him were very very convincing. MS. CURRY: Can I show him were very very convincing. MS. CURRY: Can I show him were very very convincing. MS. CURRY: Can I show him were very very convincing. MS. CURRY: Can I show him were very very convincing. MS. CURRY: Can I show him we very very convincing. MS. CURRY: Can I show him we very very convincing. MS. CURRY: Can I show him we very very convincing. MS. CURRY: Can I show him we very very convincing. MS. CURRY: Can I show him we very very convincing. MS. CURRY: Can I show him we very very convincing. MS. CURRY: Can I show him we very very convincing. MS. CURRY: Can I show him we very very convincing. MS. CURRY: Can I show him we very convincing. MS. CURRY: Can I show him we very convincing. MS. CURRY: Can I show him we very convincing. MS. CURRY: Can I show him we very convincing. MS. CURRY: Can I show him we very convincing. MS. CURRY: Can I show him the proper very conviction. Table 3. You want me to read that and give you an opinion? MS. CURRY: Can I show him we very convincing. MS. CURRY: Can I show him the proper very convection. The WITNESS: I mean literally, it's this. show the very convent. A. Yes, plases show that to him. Thank you. Page 471 D. Dey on the very convent.	1	_		
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4 Q. Doctor, do you think that— 5 that peer-reviewed published data 6 indicate that there is a dose-response 7 with regard to tale and risk of ovarian 6 cancet? 8 A. I believe that that's one of 7 the weaknesses is it's not consistently 10 the weaknesses is it's not consistently 11 shown. 12 Q. But you do agree that there 12 are peer-reviewed studies which show a 13 dose-response, correct? 14 dose-response, correct? 15 MS. CURRY: Object to the 16 form. 16 form. 17 THE WITNESS: I ve seen 17 this with the that have only two 19 levels of exposure, and one is 19 higher than the other and they 20 levels of exposure, and one is 20 literature, people define 24 literature, people define 24 literature, people define 25 dose-response in a lot of 20 different ways. So I'd have to 3 agree with you, yes. 3 dose-response. 4 Penninkilampi does that. 5 Two dose levels and says there's a dose-response. 6 dose-response. 7 (Document marked for 19 different ways. So I'd have to 3 agree with you, yes. 3 dose-response. 6 dose-response. 7 (Document marked for 19 different ways. So I'd have to 3 agree with you, yes. 3 dose-response. 4 Penninkilampi does that. 5 Two dose levels and says there's a dose-response. 6 dose-response. 7 (Document marked for 19 different ways. So I'd have to 3 agree with you, yes. 19 DYMS. GARBER: 10 (Document marked for 19 different ways. So I'd have to 3 agree with you, yes. 19 DYMS. GARBER: 10 (Document marked for 19 different ways. So I'd have to 3 agree with you, yes. 19 DYMS. GARBER: 10 (Document marked for 19 dose-response. 10 dose-response. 10 (Document marked for 19 dose-response. 10 dose-response. 10 dose-response. 10 dose-respon			1	
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l l	23			

PageID: 193842 Kevin Holcomb, M.D.

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	Page 474		Page 476
1	BY MS. GARBER:	1	THE WITNESS: Yes. But not
2	Q. Doctor, these data here that	2	together. They're saying duration
3	are presented in Table 3, they show	3	in one and frequency in the other.
4	duration and frequency of talc use,	4	So they're saying that but I
5	right?	5	think they've just split this in
6	A. Yes.	6	two.
7	Q. In the meta-analysis?	7	BY MS. GARBER:
8	A. Yes.	8	Q. And, Doctor, if you go back
9	Q. Correct?	9	to the abstract, first page of this
10	And for the duration defined	10	study.
11	as ten years, the relative risk is	11	A. Right.
12	statistically significant at 1.16, right?	12	Q. Okay. Second-to-last
13	A. The only thing I'm not I	13	sentence. It says, "This meta-analysis
14	have to say I'm not sure what's going on	14	resulted in a weak but statistically
15	here, and I didn't want to hold up more	15	significant association between genital
16	time. Are they saying if you compare	16	use of talc and ovarian cancer, which
17	studies in this 12-risk estimate and look	17	appears to be limited to serous carcinoma
18		18	**
19	at someone who had less than ten years	19	with a suggestion of a dose-response."
20	use and more than ten years use, and then	20	Do you see that? A. Yeah.
21	say the relative risk between those two	21	
	is 1.16, and a confidence interval that		Q. Those were the authors'
22	comes close but doesn't cross one, then	22	words, right, suggestion of a
23	you're if it's a if it's just	23	dose-response?
24	splitting it in two, and say well ten is	24	A. Suggestion, yes.
	Page 475		Page 477
1	the split-off and I'm going to look at	1	Q. Okay. And then
2	less than ten and more than ten, that's	2	A. And I think they're using
3	not a dose-response. You can't make a	3	suggestion because they just did a
4	dose-response on just two observations.	4	dichotomous that's the word that I was
5			
	And I think that may be what	5	
6	And I think that may be what they're doing on the second one as well.	5 6	looking for, dichotomous a dichotomous
6 7	they're doing on the second one as well.		
6 7	they're doing on the second one as well. But to be perfectly honest, I'm not sure.	6	looking for, dichotomous a dichotomous evaluation with just and you can't prove a dose-response. Because if they
6 7 8	they're doing on the second one as well. But to be perfectly honest, I'm not sure. I'd have to look at the methods to figure	6 7	looking for, dichotomous a dichotomous evaluation with just and you can't prove a dose-response. Because if they were doing a test for dose-response, they
6 7 8 9	they're doing on the second one as well. But to be perfectly honest, I'm not sure. I'd have to look at the methods to figure out what they're doing here. But it	6 7 8 9	looking for, dichotomous a dichotomous evaluation with just and you can't prove a dose-response. Because if they were doing a test for dose-response, they met statistical significance. And you
6 7 8 9 10	they're doing on the second one as well. But to be perfectly honest, I'm not sure. I'd have to look at the methods to figure out what they're doing here. But it seems like a like a basically	6 7 8 9 10	looking for, dichotomous a dichotomous evaluation with just and you can't prove a dose-response. Because if they were doing a test for dose-response, they met statistical significance. And you know how much I like confidence
6 7 8 9 10 11	they're doing on the second one as well. But to be perfectly honest, I'm not sure. I'd have to look at the methods to figure out what they're doing here. But it seems like a like a basically just what's the term I'm looking for?	6 7 8 9	looking for, dichotomous a dichotomous evaluation with just and you can't prove a dose-response. Because if they were doing a test for dose-response, they met statistical significance. And you know how much I like confidence intervals. They would say that they
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6 7 8 9 10 11 12 13 14 15 16 17	they're doing on the second one as well. But to be perfectly honest, I'm not sure. I'd have to look at the methods to figure out what they're doing here. But it seems like a like a basically just what's the term I'm looking for? Just two options, less than ten years, more than ten years. Q. Doctor, let me ask you this. Does Table 3 A. I guess I don't understand exactly what they did here.	6 7 8 9 10 11 12 13 14 15 16 17	looking for, dichotomous a dichotomous evaluation with just and you can't prove a dose-response. Because if they were doing a test for dose-response, they met statistical significance. And you know how much I like confidence intervals. They would say that they found a dose-response. But they're saying it's a suggestion of a dose-response because they didn't do that sort of analysis. Q. Doctor, Health Canada concluded there was a dose-response in
6 7 8 9 10 11 12 13 14 15 16 17	they're doing on the second one as well. But to be perfectly honest, I'm not sure. I'd have to look at the methods to figure out what they're doing here. But it seems like a like a basically just what's the term I'm looking for? Just two options, less than ten years, more than ten years. Q. Doctor, let me ask you this. Does Table 3 A. I guess I don't understand exactly what they did here. Q. Yeah. Okay. That's fair.	6 7 8 9 10 11 12 13 14 15 16 17	looking for, dichotomous a dichotomous evaluation with just and you can't prove a dose-response. Because if they were doing a test for dose-response, they met statistical significance. And you know how much I like confidence intervals. They would say that they found a dose-response. But they're saying it's a suggestion of a dose-response because they didn't do that sort of analysis. Q. Doctor, Health Canada concluded there was a dose-response in their Bradford Hill, right, under their
6 7 8 9 10 11 12 13 14 15 16 17 18	they're doing on the second one as well. But to be perfectly honest, I'm not sure. I'd have to look at the methods to figure out what they're doing here. But it seems like a like a basically just what's the term I'm looking for? Just two options, less than ten years, more than ten years. Q. Doctor, let me ask you this. Does Table 3 A. I guess I don't understand exactly what they did here. Q. Yeah. Okay. That's fair. Does Table 3 present	6 7 8 9 10 11 12 13 14 15 16 17 18	looking for, dichotomous a dichotomous evaluation with just and you can't prove a dose-response. Because if they were doing a test for dose-response, they met statistical significance. And you know how much I like confidence intervals. They would say that they found a dose-response. But they're saying it's a suggestion of a dose-response because they didn't do that sort of analysis. Q. Doctor, Health Canada concluded there was a dose-response in their Bradford Hill, right, under their biologic gradient assessment?
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	they're doing on the second one as well. But to be perfectly honest, I'm not sure. I'd have to look at the methods to figure out what they're doing here. But it seems like a like a basically just what's the term I'm looking for? Just two options, less than ten years, more than ten years. Q. Doctor, let me ask you this. Does Table 3 A. I guess I don't understand exactly what they did here. Q. Yeah. Okay. That's fair. Does Table 3 present duration and frequency of talc use that	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	looking for, dichotomous a dichotomous evaluation with just and you can't prove a dose-response. Because if they were doing a test for dose-response, they met statistical significance. And you know how much I like confidence intervals. They would say that they found a dose-response. But they're saying it's a suggestion of a dose-response because they didn't do that sort of analysis. Q. Doctor, Health Canada concluded there was a dose-response in their Bradford Hill, right, under their biologic gradient assessment? MS. CURRY: Object to the
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	they're doing on the second one as well. But to be perfectly honest, I'm not sure. I'd have to look at the methods to figure out what they're doing here. But it seems like a like a basically just what's the term I'm looking for? Just two options, less than ten years, more than ten years. Q. Doctor, let me ask you this. Does Table 3 A. I guess I don't understand exactly what they did here. Q. Yeah. Okay. That's fair. Does Table 3 present duration and frequency of talc use that present statistically significant	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	looking for, dichotomous a dichotomous evaluation with just and you can't prove a dose-response. Because if they were doing a test for dose-response, they met statistical significance. And you know how much I like confidence intervals. They would say that they found a dose-response. But they're saying it's a suggestion of a dose-response because they didn't do that sort of analysis. Q. Doctor, Health Canada concluded there was a dose-response in their Bradford Hill, right, under their biologic gradient assessment? MS. CURRY: Object to the form.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	they're doing on the second one as well. But to be perfectly honest, I'm not sure. I'd have to look at the methods to figure out what they're doing here. But it seems like a like a basically just what's the term I'm looking for? Just two options, less than ten years, more than ten years. Q. Doctor, let me ask you this. Does Table 3 A. I guess I don't understand exactly what they did here. Q. Yeah. Okay. That's fair. Does Table 3 present duration and frequency of talc use that present statistically significant results?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	looking for, dichotomous a dichotomous evaluation with just and you can't prove a dose-response. Because if they were doing a test for dose-response, they met statistical significance. And you know how much I like confidence intervals. They would say that they found a dose-response. But they're saying it's a suggestion of a dose-response because they didn't do that sort of analysis. Q. Doctor, Health Canada concluded there was a dose-response in their Bradford Hill, right, under their biologic gradient assessment? MS. CURRY: Object to the form. THE WITNESS: I'd have to
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	they're doing on the second one as well. But to be perfectly honest, I'm not sure. I'd have to look at the methods to figure out what they're doing here. But it seems like a like a basically just what's the term I'm looking for? Just two options, less than ten years, more than ten years. Q. Doctor, let me ask you this. Does Table 3 A. I guess I don't understand exactly what they did here. Q. Yeah. Okay. That's fair. Does Table 3 present duration and frequency of talc use that present statistically significant	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	looking for, dichotomous a dichotomous evaluation with just and you can't prove a dose-response. Because if they were doing a test for dose-response, they met statistical significance. And you know how much I like confidence intervals. They would say that they found a dose-response. But they're saying it's a suggestion of a dose-response because they didn't do that sort of analysis. Q. Doctor, Health Canada concluded there was a dose-response in their Bradford Hill, right, under their biologic gradient assessment? MS. CURRY: Object to the form.

Page 478 Page 480 1 Q. You don't remember? 1 said all that to her, she said, "I just 2 A. No, I don't. 2 need to know, Doctor, should I use it? 3 3 Q. All right. Is it safe? Yes or no?" what would your 4 4 A. Can you tell me which page response be? 5 you are talking about? 5 MS. CURRY: Object to the 6 6 Q. Can I ask you a few more form. questions? 7 7 THE WITNESS: I'd want to 8 Were you provided by 8 ask her why she uses it. I'm 9 Johnson & Johnson counsel any testing of 9 going to make another assumption. talcum powder products by Dr. Longo with The fact that she's asking me 10 10 regard to historical samples of talcum 11 11 again after that explanation is powder products? 12 12 that she's concerned. And I would say, if you're concerned maybe you 13 A. No. 13 should find an alternative product 14 Q. Were you provided by Johnson 14 & Johnson with any internal Johnson & 15 because you're concerned, not 15 16 Johnson company testing of their talcum 16 because I think it causes ovarian powder products for asbestos or fibrous 17 17 cancer. But I don't see why you 18 talc? 18 would stress yourself out over 19 A. No. 19 this. Q. Were you provided with any 20 20 BY MS. GARBER: company witness testimony with regard to 21 21 Q. And, Doctor, if your patient testing of talcum powder products? 22 said, "I just need to know, is using 22 23 A. I hadn't requested any of 23 Johnson & Johnson talcum powder products 24 these, and no, I wasn't provided. that contain asbestos, is that safe for 24 Page 479 Page 481 1 Q. So, Doctor, let me ask you 1 me to use? Yes or no?" 2 this. I want you to assume that talcum 2 MS. CURRY: Object to the 3 powder products contain asbestos, and a 3 form. patient of yours has asked you, is it THE WITNESS: And this is 4 4 safe to use talcum powder products on my 5 5 with my assumption that there's 6 genitals. What would be your response? 6 asbestos in the product? 7 A. Well, my first step would be 7 BY MS. GARBER: 8 to disclose that I'm involved in this 8 Q. Right. 9 litigation. 9 A. And I'm going to make 10 another assumption that there were 10 And then I would tell her, asbestos in the products that was studied 11 pretty much what I would say without that 11 12 in this totality of the evidence that I 12 assumption, that there are some, in my 13 opinion, weaker designed studies showing 13 reviewed. And I would -- I'm not going a weak, as other people agree, increased to repeat it for the sake of time, but I 14 14 risk of ovarian cancer. And other 15 would have the same exact discussion with 15 weaker -- other weakly designed studies 16 16 her. 17 that show no difference, and it seems to 17 You would say that it's safe Q. 18 be about a 50/50 thing, and then cohort 18 to use? 19 19 studies that show no increased risk. A. I would say that, given your assumption, there's asbestos in this 20 And I would tell the patient 2.0 21 overall there's not sufficient evidence 21 talcum powder. The totality of the data using the same product that you say has 22 22 to suggest that talcum powder causes asbestos in it, does not convince me that 23 ovarian cancer. 2.3 24 Q. And, Doctor, if after you 24 it causes ovarian cancer. So I would --

Page 482 Page 484 1 that's what I would say to her. 1 you, is it safe to apply this product to 2 Q. Would you say that it was 2 my genitals. 3 3 then safe to use? A. Okay. I'm going to assume 4 A. Again, I'm telling you that 4 then that the product that you're 5 there is no convincing evidence that this 5 describing is the same product that was 6 powder causes ovarian cancer. And that's 6 used in the totality of the data that I 7 reviewed. And I would tell her the exact 7 where I would leave it. 8 O. Okay. Let me turn to 8 same story, that there's some weaker 9 another hypothetical. 9 studies suggesting a modest or weak 10 I want you to assume that 10 inconsistent positive association, and 11 Johnson & Johnson's talcum powder 11 stronger studies showing no association. And in its totality, I would say there's 12 products are found to contain fibrous 12 13 talc and your patient asks you the same 13 no compelling evidence that that product 14 question, is it safe for me to use 14 that you're describing increases her risk 15 Johnson & Johnson's talcum powder 15 for ovarian cancer. 16 products that contain fibrous tale on my 16 Q. Do you go to those data because you assume there's asbestos in 17 genitals, what would your response be? 17 MS. CURRY: Object to the 18 Johnson & Johnson's products always? 18 19 form. 19 MS. CURRY: Object to the 20 THE WITNESS: In this 20 form. 21 21 hypothetical situation, can I THE WITNESS: Do I go to 2.2 assume that that same Johnson & 2.2 what data? 23 Johnson that has fibrous tale was 23 BY MS. GARBER: the same stuff used in all the 24 24 Q. Do you go to the talc data Page 483 Page 485 1 body of literature that I've or --1 because you make an assumption that 2 is that what you'd like me to 2 Johnson & Johnson's products contain 3 assume as well? 3 asbestos? 4 BY MS. GARBER: 4 MS. CURRY: Object to the 5 Q. What I want you to assume is 5 form. 6 that one of your patients is asking you 6 THE WITNESS: I'm not sure 7 is it safe or not. 7 what would make you say that. 8 A. But this is your world. And 8 How else can I advise a this is your hypothetical situation, so I 9 9 patient on the risk of a substance 10 want to make sure I'm doing it right. 10 without going to the epidemiologic data on that substance? She's 11 The patient is asking me, 11 12 talcum powder products by Johnson & 12 asking me about talc. What other 13 Johnson has fibrous talc as you said. 13 data am I going to review to give 14 And I'm just asking you, can I assume 14 her an answer? 15 that the body of literature in its 15 BY MS. GARBER: totality that I've reviewed is the same Q. Doctor, you didn't look at 16 16 17 product that you're describing, there is 17 the NTP data, did you? 18 no reason for me to have a different 18 A. No. 19 conversation? 19 MS. GARBER: Okay. Let's 20 Q. My hypothetical did not 20 just take a break and let me look 21 include the body of literature. 21 at my notes. But I think I'm 22 My hypothetical was that 22 finished. 23 Johnson & Johnson's products contain 23 MS. CURRY: Let's go off the fibrous tale and your patient is asking 24 24 record.

PageID: 193845 Kevin Holcomb, M.D.

			Page 488
1	_	1	
1	THE VIDEOGRAPHER: Okay.	1	some reason separated that one out
2	The time is 6:13 p.m. Off the	2	with a potentially.
3	record.	3	BY MS. GARBER:
4	(Short break.)	4	Q. All right. And the footnote
5	THE VIDEOGRAPHER: We are	5	that the authors are citing to is the
6	back on the record. The time is	6	Penninkilampi data, correct?
7	6:36 p.m.	7	A. Yes.
8	BY MS. GARBER:	8	Q. And, Doctor, I'm going to
9	Q. Doctor, I'm going to mark an	9	mark another document as Exhibit 29.
10	additional paper that appears in the	10	(Document marked for
11	Lancet dated March 23, 2019.	11	identification as Exhibit
12	(Document marked for	12	Holcomb-29.)
13	identification as Exhibit	13	BY MS. GARBER:
14	Holcomb-28.)	14	Q. And this is a study that
15	BY MS. GARBER:	15	appeared in ACOG Obstetrics and
16	Q. And, Doctor, you have not	16	Gynecology, and it's titled "What's New
17	seen this paper before, have you?	17	in Ovarian Cancer."
18	A. No.	18	Do you see that?
19	Q. All right. If I could turn	19	A. Yes, I do.
20	your attention to the left-hand column	20	Q. And it says, "Best articles
21	that appears at the bottom if you look up	21	from the past year," correct?
22	here?	22	A. Yes.
23	A. Yes.	23	Q. It's written by Jason D.
24	Q. Okay. And, Doctor, it	24	Wright, M.D., correct?
	Page 487		Page 489
1	reads the title is "Epithelial Ovarian	1	A. Correct.
2	Cancer" by Stephanie oh boy. Okay. I	2	Q. You respect him?
3	have to start with French.	3	A. Yes.
4	A. Lheureux, I believe.	4	Q. And the Penninkilampi
5	Q. Lheureux. All right.	5	article is listed as four of the best
6	And it indicates: "Risk	6	articles from the past year, correct?
7	factors for epithelial ovarian cancer	7	A. Yes.
8	include the number of lifetime ovulations	8	Q. Doctor, we
9	(absence of pregnancy, early age of	9	MS. CURRY: Object to the
10	menarche, and late age of menarche)	10	form of the last question.
11	family history of EOC, smoking, benign	11	THE WITNESS: I don't you
12	gynecologic conditions (including	12	know, I'm sorry.
13	endometriosis, polycystic ovarian system,	13	BY MS. GARBER:
14	and pelvic inflammatory disease) and	14	Q. Doctor, I didn't have a
15	potentially the use of talcum powder."	15	question.
16	Did I read that correctly?	16	A. No, no, I want to go back.
17	A. Yes, you did.	17	Because I said yes. But you made a few
18	Q. So here the authors just	18	misstatements there.
19		19	
20	days ago are indicating the potential of		A, you said this was a
	talc as a risk factor for epithelial	20	study. It's not. It's another op Ed
21	ovarian cancer, true?	21	piece from Jason Wright saying what he
\sim	MS. CURRY: Object to the	22	felt was the best papers of the year.
22	C		Tr '1'.
23	form.	23	Two, you said it was an
	form. THE WITNESS: Yes. They for	23 24	Two, you said it was an ACOG. No, it's the journal of

PageID: 193846 Kevin Holcomb, M.D.

	Page 490		Page 492
1	obstetrics Obstetrics and Gynecology	1	exhaustive review haven't seen
2	is the name of the journal this is in.	2	before.
3	And just to clarify, without	3	And so in that setting, if
4	speaking to Dr. Wright, I'm not sure why	4	there was some convincing data
5	he's calling these specifically the best,	5	that bumped them from 2-B to 1,
6	whether he's speaking towards the quality	6	yes, I would feel differently
7	of the studies or just what's the most	7	about it.
8	popular or sensational.	8	BY MS. GARBER:
9	Q. Doctor, what's the journal	9	Q. I will state in my
10	name?	10	hypothetical that the IARC authors or
11	A. Obstetrics and Gynecology.	11	working group look at the data that
12	Q. Does that do people refer	12	exists today with regard to the
13	to that as by a particular color?	13	epidemiological data, the meta-analyses
14	A. Green.	14	that exist, the nine meta-analyses,
15	Q. And that's a that's a	15	including Taher, and the other
16	journal that you regularly read?	16	epidemiological data, the Saed data and
17	A. Yes.	17	the other biologically plausible data,
18	Q. And you do some review work	18	and the mechanistic data that was
19	for them, don't you?	19	previously contained in IARC 2010, and
20	A. Yes.	20	they concluded that it that talcum
21	Q. That is a published document	21	powder products were a Group 1
22	that appears within the Green Journal,	22	carcinogen, would your opinions in this
23	right?	23	matter change?
24	A. Yes. You're telling me this	24	MS. CURRY: Object to the
	Page 491		Page 493
1	is from the Green Journal, so it's	1	form.
2	Q. Doctor, were you aware that	2	THE WITNESS: I have to be
3	IARC is currently evaluating talcum	3	honest. It's hard for me to
4	powder products for its carcinogenicity?	4	imagine that Dr. Saed's paper
5	MS. CURRY: Object to the	5	being quoted in IARC. So this is
6	form.	6	a tough one for me to get into
7	THE WITNESS: No. I was not	7	your hypothetical situation here.
8	aware.	8	But no, I'm not so sure,
9	BY MS. GARBER:	9	because I'm thinking from the last
10	Q. You are not aware of that?	10	time they published a
11	Doctor, if I want you to	11	classification to now, there's
12	assume that IARC reviews the data that	12	going to be three prospective
13	exists to date and concludes that talcum	13	studies, all coming to the
14	powder products are a Group 1 carcinogen.	14	conclusion that there is no
15	Would your opinions in this case differ	15	increased risk.
16	with regard to talcum powder products?	16	And then there's going to be
17	MS. CURRY: Object to the	17	a number of meta-analysis, as
18	form.	18	you're saying, which a lot of the
19	THE WITNESS: I'd have to	19	data is rechurning what they've
20	see what additional data happened	20	already looked at. So it would be
~ -	between 2010 and 2019 that that	21 22	what incremental data have they
21		1 ラワ	added to it.
22	bumped them from 2-B to 1. So I'm	1	
	assuming that there would be some data that I've after my	23 24	So I guess I'm having a hard time in your in your scenario,

PageID: 193847 Kevin Holcomb, M.D.

	Page 494		Page 496
1	how IARC is going to get from a	1	Q. Sure. Are you aware that
2	2-B to a 1, based on what's been	2	the FDA are you aware of FDA's
3	published from the last time that	3	statements with regard to certain
4	they issued an opinion on this.	4	cosmetic makeup products that are sold at
5	BY MS. GARBER:	5	Justice and Claire's with regard to talc
6	Q. I want you to assume that	6	and asbestos?
7	they get to a 1. Is your opinion going	7	MS. CURRY: Object to the
8	to change out of your respect for the	8	form.
9	institution of IARC, a branch of the	9	THE WITNESS: No, I'm not
10	World Health Organization?	10	aware.
11	MS. CURRY: Object to the	11	BY MS. GARBER:
12	form.	12	Q. Did you, before you came
13	THE WITNESS: If IARC used	13	here today and in preparation for your
14	Penninkilampi, for example	14	deposition, endeavor to look at what FDA
15	let's say that I was I'm going	15	is saying about talcum powder products?
16	to give you a hypothetical.	16	MS. CURRY: Object to the
17	BY MS. GARBER:	17	form.
18	Q. Doctor, you don't give me a	18	THE WITNESS: No.
19	hypothetical.	19	(Document marked for
20	A. If	20	identification as Exhibit
21	Q. I give you one. You	21	Holcomb-30.)
22	understand that, right?	22	BY MS. GARBER:
23	A. I'm giving you the	23	Q. Let's mark this as
24	hypothetical of how I'm considering your	24	Exhibit 30.
	hypothetical of now 1 in considering your		Exhibit 50.
	Page 495		Page 497
1	situation.	1	Doctor, this is at the
2	Q. I want you to answer my	2	bottom, you see this is the FDA's
3	hypothetical.	3	website, right, FDA.gov/cosmetics?
4	A. It depends on what brought	4	A. Yes.
5	them from 2-B to 1. I have respect for	5	Q. Do you see that?
6	IARC because I looked at their	6	A. Yes.
7	methodology. We've gone through the	7	Q. And do you see at the top it
8	things that I didn't agree with IARC	8	indicates recalls and alerts? "FDA
9	methodology. But if you told me IARC's	9	advises consumers to stop using certain
10	quality dropped to such a standard that	10	Claire's cosmetic products."
11	they had Dr. Saed's paper as highly	11	Do you see that?
12	credible, and this is moving us from here	12	A. Yes.
13	to here, I'm no longer so impressed with	13	Q. And do you see there in the
14	IARC.	14	middle of the document, it indicates,
15	So, no, my respect level for	15	"Product samples test positive for
16	IARC would drop considerably, and I	16	asbestos," and then it lists a number of
17	probably wouldn't follow the	17	Claire's products?
18	recommendations.	18	A. Yes.
19	Q. Doctor, you're aware, aren't	19	Q. Doctor, if there was such a
20	you, of FDA's recent statements with	20	finding by FDA with regard to J&J's
21	regard to the businesses Justice and	21	talcum powder products, would your
22	Claire and their cosmetic products?	22	opinions change in this case?
23	A. That's I'm not can you	23	MS. CURRY: Object to the
	-		•
24	repeat that once again.	24	form.

THE WITNESS: I'd have to the testing of the products twent into this body of owledge that I have, I'm not e. I would have to think about The reason why I'm hesitating because I don't know, is that a w problem? Like, for example, so one store, Claire's stores, I hak it's easier to call these ks out because you don't know his is a new contamination. The question would be if all so data is with the same ataminated product, I'd have to the ume that a woman is at no more reased risk than than in the stuff in this paper in see papers. But I can't see myself going that FDA regulations. I mean, FDA says stop using something,	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. You would heed the warning? MS. CURRY: Object to the form. THE WITNESS: I would think anyone with common sense would. It doesn't make sense to not to. BY MS. GARBER: Q. Similarly, if FDA compelled a warning to be placed on Johnson & Johnson's products, would you heed that warning if your patients were asking you if it was safe to use? MS. CURRY: Object to the form. THE WITNESS: Putting a warning on it or pulling it off the market? BY MS. GARBER: Q. Putting a warning on the bottle. MS. CURRY: Object to the
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se papers. But I can't see myself going inst FDA regulations. I mean,	19 20 21	Q. Putting a warning on the bottle. MS. CURRY: Object to the
But I can't see myself going inst FDA regulations. I mean,	20 21	bottle. MS. CURRY: Object to the
uinst FDA regulations. I mean,	21	MS. CURRY: Object to the
•	1	
DA says stop using something,	1 2.2	
11 1	1	form.
not going to tell people to	23	THE WITNESS: Would I tell
something against FDA's	24	patients to heed the warning.
Page 499		Page 501
ulations.	1	BY MS. GARBER:
	2	Q. Sure. If the patient if
		there was a warning about ovarian cancer
		on the bottle, compelled by by FDA and
	5	your patient came and said I've been
	I	putting this on my genitals, should I
	1	stop, what would your answer be?
		MS. CURRY: Object to the
ž		form.
		THE WITNESS: I have to
	1	believe that if the if the FDA
	1	thought that that product was such
	1	a carcinogen and so dangerous
_		there wouldn't be just a warning
		label, they would pull it off the
	1	market. If the FDA is just
		putting a warning so that patients
		are aware of it, I think my
	1	
	1	conversation with her is going to
ough i may unlik in my nands it's	I	be very similar to the
It has a latte do reith	1	conversation I just told you I
	1	would have now.
	I	BY MS. GARBER:
11	24	Q. But you wouldn't tell her
	e something against FDA's	Page 499 ulations. GARBER: And if FDA indicates that ing that they conducted of a & Johnson's talcum powder is test positive for asbestos, your causation opinions change? MS. CURRY: Object to the m. THE WITNESS: No. No. GARBER: Would your advice to is change? Apparently the FDA would ut out a warning to say stop and, yeah, I would stop using done that in the past where things that if the FDA sends arning about, and I stop doing it, ough I may think in my hands it's least a lot to do with least where labeled as a l

Kevin Holcomb, M.D.

Page 502 Page 504 1 to investigate and monitor reports of to -- to stop using it? 1 2 A. My guess is the warning 2 asbestos contamination in certain 3 would be very similar to the 3 cosmetic products and will provide 4 conversations I'm having, there are some 4 additional information as it becomes 5 weaker data suggesting -- so in your --5 available. The agency is and will 6 you know, your hypothetical situation, 6 continue to work with other" -- "other it's -- I would think that they would 7 7 federal partners to share our collective 8 8 possibly recall it or -- not recall it. expertise to advance scientific test 9 They would -- they would put an advice to 9 methods for the assessment of asbestos." 10 10 stop using a certain product, like they Did I read that correctly? are doing in this situation. And a 11 A. So far you've been perfect. 11 Q. Does it cause you concern 12 patient came to me and says the FDA has 12 this warning to stop using this product, 13 that the FDA is interested in looking 13 further into whether talcum powder I would support the FDA. 14 14 15 Q. And, Doctor, I know you are 15 products contain asbestos? 16 not a regulatory expert, but you do know 16 MS. CURRY: Object to the 17 that at times FDA does not have the power form. 17 18 THE WITNESS: No. It to compel a warning, you understand that, 18 19 right? 19 actually gives me reassurance that 20 the federal agencies that are 20 A. I -- I, really -- as you 21 supposed to be protecting public 21 started with your statement, I am not a 22 safety are at work and doing what regulatory expert. I know very little 2.2 they are supposed to be doing. 23 about regulations and how the FDA works 23 24 24 BY MS. GARBER: in that regard. Page 503 Page 505 1 (Document marked for 1 Q. But you are here in this 2 identification as Exhibit 2 litigation saying talc is safe, even 3 though FDA is looking into whether or not 3 Holcomb-31.) 4 talcum powder products contain asbestos. 4 BY MS. GARBER: 5 A. Right. So if --5 Q. I want to mark another 6 document. And this is Exhibit 31, which 6 MS. CURRY: Object to the 7 is from the FDA website. And it's titled 7 form. 8 8 "Talc." BY MS. GARBER: 9 Doctor, do you see -- do you 9 Q. It doesn't concern you? see that the date of the download of this 10 10 A. It would concern me if they 11 document is March 19, 2019? 11 told me that they found levels of talc and -- and -- you know, the -- the reason 12 A. Yes. 12 13 Q. And, Doctor, did you ever 13 why it would concern me is because I endeavor to go to the FDA website and put 14 14 don't know if that's a new contamination in "talc" to see what the FDA was saying 15 15 or that product is the same as it's about talcum powder products? 16 always been. 16 17 A. No. 17 If it's the same as it's 18 Q. Okay. I will represent to 18 always been, then you are talking about a you what appears new on this website is 19 level of contamination that doesn't have 19 what's under the heading of "Talc." 20 20 compelling evidence that it causes 21 It says, "Here is a recent 21 cancer. 22 FDA action related to talc. Learn more 22 But I don't know how I would 2.3 below " 2.3 know the difference. I think I would 24 It reads, "The FDA continues 24 have to assume that it's -- that it's

PageID: 193850 Kevin Holcomb, M.D.

1 different than this. I think you'd have 1	Page 508
	THE WITNESS: You're saying
2 to either assume it's the same or it's 2	the advisory would just say that
3 different. And I think the safer thing 3	there's some evidence suggesting
4 to do would be to assume that it's 4	that talc what is the can
5 different. 5	you word the can you give me
6 If I knew for sure that this 6	the hypothetical wording of what
7 level of contamination they find has been 7	is SGO is saying?
8 in this stuff all this time and all these 8	BY MS. GARBER:
9 thousands of patients that we've 9	Q. Sure. SGO has issued an
10 followed, you know, the large 10	advisory that says there is evidence that
11 case-control studies, the 70,000, 60,000,	talc can cause cancer, ovarian cancer.
12 40,000 patients on cohort studies, if 12	A. Right. And then
that's the product that they've been 13	Q. Would you would you
14 using and it's contaminated all this 14	continue to advise patients that talcum
time, I would have to say no, that	powder products are safe?
16 wouldn't worry me. But there's no way 16	MS. CURRY: Object to the
that I would be able to tell the 17	form.
18 difference. 18	THE WITNESS: Before I made
19 Q. Shouldn't you, as a patient 19	a decision on that I'd have to go
20 advocate, err on the side of safety? 20	and see what is the data that they
21 MS. CURRY: Object to the 21	are basing that on.
22 form. 22	If they are basing it on the
THE WITNESS: That's what I 23	data that I've just reviewed, I
24 just said, I would.	would have the same discussion
Page 507	Page 509
1 BY MS. GARBER: 1	with my patients, because I I
2 Q. You know, Doctor, if you 2	would say them saying that there's
3 are a member of the SGO, right?	evidence to this effect is just
4 A. Yes. 4	telling the truth.
5 Q. And that stands for Society 5	If I then have to go and
6 of Gynecologic Oncology, right? 6	read the body of literature that
7 A. Yes. 7	they're using to make that
8 Q. That's a professional 8	warning, to decide, well, yes,
9 organization? 9	the the studies that they are
10 A. Yes. 10	referring to are the same ones I
11 Q. And do you know what 11	know, and the ones that don't is
whether they list talc as a risk factor 12	the same amount going both ways,
13 at present? 13	my feeling would be the same.
44	So is their advisory based
14 A. On which site, on the SGO 14	
15 website?	on new data or an assessment of
15 website? 15 16 Q. Yeah. 16	what I've assessed?
15 website? 15 16 Q. Yeah. 16 17 A. No, I'm not I'm not sure. 17	what I've assessed? BY MS. GARBER:
15 website? 15 16 Q. Yeah. 16 17 A. No, I'm not I'm not sure. 17 18 Q. I want you to assume that 18	what I've assessed? BY MS. GARBER: Q. You wouldn't heed the
15 website? 15 16 Q. Yeah. 16 17 A. No, I'm not I'm not sure. 17 18 Q. I want you to assume that 18 19 that the SGO issues an advisory that talc 19	what I've assessed? BY MS. GARBER: Q. You wouldn't heed the advisory of the SGO, your professional
15 website? 15 16 Q. Yeah. 16 17 A. No, I'm not I'm not sure. 17 18 Q. I want you to assume that 18 19 that the SGO issues an advisory that talc 19 20 can cause cancer. Would you continue to 20	what I've assessed? BY MS. GARBER: Q. You wouldn't heed the advisory of the SGO, your professional organization, is that your testimony?
15 website? 15 16 Q. Yeah. 16 17 A. No, I'm not I'm not sure. 17 18 Q. I want you to assume that 18 19 that the SGO issues an advisory that talc 20 can cause cancer. Would you continue to 20 21 recommend to patients that they use 21	what I've assessed? BY MS. GARBER: Q. You wouldn't heed the advisory of the SGO, your professional organization, is that your testimony? A. And stop using talc myself?
website? 15 Q. Yeah. A. No, I'm not I'm not sure. Q. I want you to assume that that the SGO issues an advisory that talc can cause cancer. Would you continue to can cause cancer. Would you continue to talcum powder products on their genitals?	what I've assessed? BY MS. GARBER: Q. You wouldn't heed the advisory of the SGO, your professional organization, is that your testimony? A. And stop using talc myself? What what would
15 website? 15 16 Q. Yeah. 16 17 A. No, I'm not I'm not sure. 17 18 Q. I want you to assume that 18 19 that the SGO issues an advisory that talc 20 can cause cancer. Would you continue to 20 21 recommend to patients that they use 21	what I've assessed? BY MS. GARBER: Q. You wouldn't heed the advisory of the SGO, your professional organization, is that your testimony? A. And stop using talc myself?

PageID: 193851 Kevin Holcomb, M.D.

	Page 510		Page 512
1	BY MS. GARBER:	1	Q. You're not going to heed the
2	Q. And advise patients that	2	advisory of the SGO?
3	it's safe to use?	3	MS. CURRY: Object to the
4	A. You didn't say that SGO is	4	form.
5	advising to stop using talc. You said	5	THE WITNESS: You the
6	what would I do if the SGO had an	6	advice
7	advisory just saying that patients should	7	BY MS. GARBER:
8	be aware that there's information out	8	Q. Because you know the data
9	there to this effect.	9	better?
10	Q. That wasn't my hypothetical,	10	A. The advice there is no
11	was it, Doctor?	11	advisory here. You keep on saying that
12		12	
13	A. Yeah. Can you go back and read it?	13	the SGO is saying that there's evidence
13 14			that talc can cause cancer. An advisory
	Q. The SGO issues an advisory	14	is telling you to do something. In this
15	that tale can cause cancer. Would that	15	case, are they saying stop using talc or
16	change what you told patients about the	16	that patients should just be aware?
17	safety of talcum powder products?	17	Q. Let me give you another
18	MS. CURRY: Object to the	18	hypothetical. SGO issues an advisory to
19	form.	19	stop using talcum powder products on your
20	THE WITNESS: If the SGO	20	genitals because it contains asbestos.
21	jumped up to the same	21	Would you heed that advisory?
22	classification as IARC that says	22	MS. CURRY: Object to the
23	there's insufficient evidence but	23	form.
24	this is potentially a carcinogen,	24	THE WITNESS: If the SGO is
	Page 511		Page 513
1	I don't see how SGO would be	1	telling patients to stop using
2	saying anything different than	2	talc because of asbestos that's
3	IARC.	3	been proven to be there, yes, to
4	So that that statement	4	be honest, I would probably drop
5	that says it can, you'd have to go	5	in line, just not to be out of
6	in and see, well, what's the	6	I'd be fearing medical/legal
7	evidence that you're basing it on.	7	exposure by not doing it, no
8	And I'm saying that why	8	matter how I felt about the data.
9	would I change my feeling about	9	BY MS. GARBER:
10	this if somebody else looks at	10	Q. More concerned about your
11	this data, and it's the same data	11	neck rather than the patients, Doctor?
12	that I've just reviewed, and says	12	MS. CURRY: Object to the
13	we're going to make this	13	form.
$\frac{13}{14}$	statement.	14	THE WITNESS: I have my
15		15	opinion of this data. The data
16	And the patient comes to me	16	•
	and asks me, well, how do you feel		if you're saying my hypothetical
17	about that statement? And if it's	17	that I just gave you is that the
18	based on this same data, I'm not	18	data didn't change and SGO makes a
19	sure how it changes the fact that	19	statement. I'm worried about the
20	it's from SGO. I'm still going to	20	patients the same amount, because
21	then explain, this is the truth as	21	the data is the data.
22	I see it and the totality of the	22	You're saying, well, what if
23	evidence.	23	SGO gets behind it and says based
24	BY MS. GARBER:	24	on what you read, we want to give
		1	

PageID: 193852 Kevin Holcomb, M.D.

	Page 514		Page 516
1	an advisory?	1	finished.
2	The risk level hasn't	2	THE VIDEOGRAPHER: Okay.
3	changed. It's not based on any	3	Stand by, please. This marks the
4	new data. So I don't care about	4	end of today's deposition. The
5	my patients any less. The risk to	5	time is 6:59 p.m.
6	them hasn't increased.	6	(Excused.)
7	BY MS. GARBER:	7	(Deposition concluded at
8	Q. Doctor, is cornstarch a safe	8	approximately 6:59 p.m.)
9	alternative to talcum powder products?	9	
10	MS. CURRY: Object to the	10	
11	form.	11	
12	THE WITNESS: It's an	12	
13	alternative, yes.	13	
14	BY MS. GARBER:	14	
15	Q. Is it a safe alternative?	15	
16	MS. CURRY: Object to the	16	
17	form.	17	
18	THE WITNESS: I have no	18	
19	reason to think that cornstarch is	19	
20	not safe.	20	
21	BY MS. GARBER:	21	
22	Q. You haven't done a	22	
23	comprehensive literature review of the	23	
24	cornstarch data, have you?	24	
	Page 515		Page 517
1	A. No.	1	
2	Q. Let me ask you about some of	2	CERTIFICATE
3	the expert work that you've done, just so	3 4	
4	that I'm clear on your prior testimony.	5	I HEREBY CERTIFY that the
5	Since the Ingham case, and		witness was duly sworn by me and that the
6	that verdict, and before you were hired	6	deposition is a true record of the testimony given by the witness.
7	in the MDL, did you continue to do any	7	
8	expert work with regard to talcum powder	8	It was requested before completion of the deposition that the
9	products and ovarian cancer?	"	witness, KEVIN HOLCOMB, M.D. have the
10	A. No. You actually asked me	9	opportunity to read and sign the
11	that earlier. Same answer. No.	10	deposition transcript.
12	Q. Okay. And are you currently	11	
13	serving as an expert on the talcum powder	12	MCHELLET CDAY
14	products in any other litigation aside	13	MICHELLE L. GRAY, A Registered Professional
15	from the MDL?		Reporter, Certified Shorthand
16	A. No.	14	Reporter and Notary Public
17	MS. GARBER: Okay. Just	15	Reporter and Notary Public Dated: March 28, 2019
18	give me one moment.	16	-,
19	Okay. All right. I have	17 18	(The foregoing certification
20	nothing further at this point.	19	(The foregoing certification of this transcript does not apply to any
21	Thank you, Doctor.	20	reproduction of the same by any means,
22	THE WITNESS: Sure.	21 22	unless under the direct control and/or supervision of the certifying reporter.)
23	MS. CURRY: No questions.	23	supervision of the certifying reporter.)
24	MS. GARBER: Okay. We're	24	
		1	

PageID: 193853 Kevin Holcomb, M.D.

	Page 518		Page 520
		,	1430 320
1	INSTRUCTIONS TO WITNESS	1 2	ACKNOWLEDGMENT OF DEPONENT
2	D1 1 1 '4'	3	ACKNOW LEDGIVIENT OF DEPONENT
3	Please read your deposition	4	I,, do
4	over carefully and make any necessary	5	hereby certify that I have read the
5	corrections. You should state the reason	6	foregoing pages, 1 - 521, and that the
6	in the appropriate space on the errata	7	same is a correct transcription of the
7	sheet for any corrections that are made.	8	answers given by me to the questions
8	After doing so, please sign	9	therein propounded, except for the
9	the errata sheet and date it.	10	corrections or changes in form or
10	You are signing same subject	11	substance, if any, noted in the attached
11	to the changes you have noted on the	12	Errata Sheet.
12	errata sheet, which will be attached to	13	
13	your deposition.	14	
14	It is imperative that you	15	
15	return the original errata sheet to the	16	KEVIN HOLCOMB, M.D. DATE
16	deposing attorney within thirty (30) days	17	
17	of receipt of the deposition transcript	18	C-1 7 - 1 1
18	by you. If you fail to do so, the	19	Subscribed and sworn to before me this
19	deposition transcript may be deemed to be	20	
20	accurate and may be used in court.	21	day of, 20 My commission expires:
21		22	wy commission expires.
22			
23		23	Notary Public
24		24	1104119 1 40110
		1	
	D F10		D 501
	Page 519		Page 521
1		1	LAWYER'S NOTES
1	Page 519 ERRATA	1 2	
2			LAWYER'S NOTES
2	ERRATA	2	LAWYER'S NOTES
2 3 4		2 3	LAWYER'S NOTES
2 3 4 5	ERRATA PAGE LINE CHANGE	2 3 4	LAWYER'S NOTES
2 3 4 5 6	ERRATA	2 3 4 5	LAWYER'S NOTES
2 3 4 5 6	ERRATA PAGE LINE CHANGE REASON:	2 3 4 5 6	LAWYER'S NOTES
2 3 4 5 6 7 8	ERRATA PAGE LINE CHANGE	2 3 4 5 6 7	LAWYER'S NOTES
2 3 4 5 6 7 8	ERRATA PAGE LINE CHANGE REASON: REASON:	2 3 4 5 6 7 8	LAWYER'S NOTES
2 3 4 5 6 7 8 9	ERRATA PAGE LINE CHANGE REASON:	2 3 4 5 6 7 8	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10	ERRATA PAGE LINE CHANGE REASON: REASON:	2 3 4 5 6 7 8 9	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10 11	ERRATA PAGE LINE CHANGE REASON: REASON:	2 3 4 5 6 7 8 9 10	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10 11 12 13	ERRATA PAGE LINE CHANGE REASON: REASON: REASON: REASON:	2 3 4 5 6 7 8 9 10 11 12	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10 11 12 13 14	ERRATA PAGE LINE CHANGE REASON: REASON:	2 3 4 5 6 7 8 9 10 11 12 13	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10 11 12 13 14	ERRATA PAGE LINE CHANGE REASON: REASON: REASON: REASON: REASON:	2 3 4 5 6 7 8 9 10 11 12 13 14	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	ERRATA PAGE LINE CHANGE REASON: REASON: REASON:	2 3 4 5 6 7 8 9 10 11 12 13 14 15	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	ERRATA PAGE LINE CHANGE REASON: REASON: REASON: REASON: REASON: REASON:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	ERRATA PAGE LINE CHANGE REASON: REASON: REASON: REASON: REASON:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	ERRATA PAGE LINE CHANGE REASON: REASON: REASON: REASON: REASON: REASON: REASON:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	ERRATA PAGE LINE CHANGE REASON: REASON: REASON: REASON: REASON: REASON:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	ERRATA PAGE LINE CHANGE REASON: REASON: REASON: REASON: REASON: REASON: REASON: REASON:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	ERRATA PAGE LINE CHANGE REASON: REASON: REASON: REASON: REASON: REASON: REASON:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	LAWYER'S NOTES
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	ERRATA PAGE LINE CHANGE REASON: REASON: REASON: REASON: REASON: REASON: REASON: REASON:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	LAWYER'S NOTES

				Page 522
	076 12 077 22	210 14 246 0	240.12	245 14 15 20
A	276:13 277:23	318:14 346:8	248:12	345:14,15,20
a.m 1:15 11:7	352:9 397:24	352:2	afternoon	345:22 366:22
126:11,16	accounts 398:21	addressing	239:22	369:5 370:9
AACES 7:14	accuracy 371:3	28:21 158:21	age 340:18	388:4 398:8
abandoned	accurate 14:12	323:9 429:7	351:18 364:2	401:3,22 402:9
214:18	22:1 23:18	adenomatous	364:10,21	402:21 404:17
ability 17:8	110:24 117:1	456:6	368:20 383:24	410:1,17
95:11 116:9	124:4 151:7	adequate 345:7	444:10 487:9	425:19 427:12
131:17 135:17	303:24 355:24	adequately	487:10	430:15 432:20
282:3 285:7	380:15,18	399:15	aged 366:1,3	439:17 452:18
422:9 426:7	518:20	ADLs 251:6,6	agencies 504:20	455:9 457:10
able 77:14 78:18	accurately	administer	agency 504:5	459:4,13,14
79:1 130:3,11	318:1 369:4	11:17	agent 72:14	470:12 471:3
132:12 148:17	achieve 194:6	admit 130:24	74:17 469:16	479:14 495:8
159:5 168:15	acid 151:24	380:9	agents 445:10	agreed 182:15
199:8 216:8	acknowledge	admitted 91:4	ages 366:5	348:24
290:9,10	128:1 155:24	94:22	ago 47:12 55:21	agreeing 297:2
314:16,20	ACKNOWLE	admitting 42:8	86:21 88:1	agrees 292:6
318:1 321:8	520:2	133:4 294:6,8	111:12 140:19	ahead 31:9 54:1
339:17 396:24	ACOG 488:15	294:10,13	143:17 354:24	66:11 237:8
438:6 442:14	489:24	330:21	461:5 487:19	al 88:19,19
506:17	act 323:10	admonitions	agree 20:21	255:19 303:4
absence 131:7	action 275:12	15:2	32:11 41:23	358:4 416:11
315:2 427:9	276:9 447:3	adnexa 151:21	89:10 93:20,22	416:23,24
487:9	503:22	advance 504:8	96:5,8 101:15	417:5,15
absolute 396:11	activities 251:9	advanced 336:3	101:18 155:22	453:15,18
abstract 125:4	251:20	advice 499:12	157:9 158:23	462:10
329:15 383:19	activity 251:11	502:9 512:6,10	162:23 170:14	Alabama 2:14
404:11,23	264:12	advise 239:7	173:9 182:12	alerts 497:8
476:9	actual 122:11	315:9 485:8	182:18 184:11	ALLEN 2:12
absurd 204:1	400:16	508:14 510:2	212:14,15,19	allow 458:13
217:14	acute 450:21	advises 9:19	212:24 214:16	allowed 73:14
academic 178:2	add 81:3 110:22	497:9	215:11 216:11	154:20 163:22
Academy	329:1 373:3	advising 510:5	221:2,12	alter 283:20
446:19	added 229:1	advisory 507:19	222:23 223:2	alterations
accept 77:22,23	493:22	508:2,10	227:20 241:7	251:21
78:11 90:8	adding 291:23	509:14,19	247:4,13,14	altered 282:3
acceptable	addition 54:5	510:7,14 512:2	249:3,11,13,16	alternative
48:21	116:13 439:20	512:11,13,18	250:4 257:11	469:16 480:14
accepted 61:8	additional 54:8	512:21 514:1	257:18,18	514:9,13,15
151:8 196:4	88:6 486:10	advocate 238:18	258:6 295:14	altogether
295:8	491:20 504:4	238:23,24	297:14,20	219:19 220:2
access 299:20	address 23:14	239:4 506:20	298:23 299:4	290:22 311:20
accompany 15:2	26:6 273:5,10	affect 291:2	300:7 317:12	313:12 321:20
accord 219:3	273:13 309:8	affirmative	317:13 318:3	321:23
account 196:22	398:17	23:22	325:21 326:2	amend 300:8
	addressed 57:2	African 7:13	329:13 335:5	amendments
	<u> </u>	<u> </u>	<u> </u>	ı

				Page 523
151.5	1.011.01	1	l	54 60 22
151:7	163:11,21	255:24	approximate	74:6,8,23
American 7:13	166:23 167:5	apparent 293:16	264:18 290:7	75:14 76:1
9:8	167:12,16	386:22	approximately	82:3,24 83:9
Americans	168:4 169:6,24	apparently	336:5 516:8	84:21 85:16,19
248:13	171:2 174:10	420:21 445:20	April 424:17	85:23 86:4,15
amount 39:13	176:13 191:3	499:14	428:6	87:19 88:9
137:9 264:12	205:24 213:14	appear 51:15	area 27:21 43:13	89:17 90:2,20
386:4 390:2	228:8,10,12,14	57:11 58:18	68:15 85:2	91:5,6 95:1,10
409:13 431:7	232:18 233:2	105:5 116:12	106:21 392:6	95:22 96:6,10
431:12 509:12	298:7 316:18	152:4,13,21,23	393:14 427:2	96:17,23 98:6
513:20	327:14,24	160:7 186:17	428:22 453:2	98:21 99:7,19
amphibole	330:11 353:12	appearances 2:1	areas 138:20	100:4,16
42:24	354:13 356:3	3:1 4:1 11:14	323:11 376:6	101:16,18
Amrhein 6:18	401:21 411:2	appeared	argue 166:4	108:19 109:23
analogies	415:1,3 458:4	488:15	253:4 266:23	154:15 170:8
120:13	458:14 485:14	appears 186:10	450:4	175:2 239:8
analysis 18:5	495:2 501:7	186:17 424:19	argument	326:17 330:10
34:7 171:7,18	515:11	471:19 476:17	460:14	342:19 391:5
171:21 189:14	answered 31:14	486:10,21	Arsenic 5:22	391:12 393:4
217:3 225:20	67:21 80:20	490:22 503:19	71:10	398:21 478:17
229:8 249:18	288:14	APPEL 3:17	article 182:2	479:3 480:24
278:20,20	answering	application 84:7	194:12 196:7	481:6,11,20,23
345:24 387:14	101:14 265:21	432:9 435:5	200:20 299:7,9	484:17 485:3
387:18 429:3	328:17 456:23	applications	299:18 300:9	496:6 497:16
431:15 436:6	answers 166:16	417:2	363:21 463:20	499:6 504:2,9
446:23 453:19	166:22 167:1	applied 145:12	489:5	504:15 505:4
477:15	411:6 520:8	427:4 428:12	articles 54:9	512:20 513:2
analyzing	anti-inflamma	applies 85:21	120:23 217:3	ascend 445:15
428:20 430:8	459:6	86:15	287:4 488:20	ascending 423:4
and/or 14:14	anticipate 405:6	apply 75:15 76:2	489:6	ascension
113:19 517:21	antiinflammat	85:17 484:1	asbestiform	127:23 131:10
Andrew 468:23	447:14,17	517:19	75:18 85:1,7	ascent 445:10
animal 127:22	449:8 455:12	appreciably	85:20,22 86:16	aside 52:23
129:4,8,13,19	455:19	270:11	89:18 95:1	111:5 207:9
130:11 131:9	antiinflammat	appreciate	96:2,6 98:24	515:14
134:16	453:16 454:17	24:13 31:12	asbestos 22:13	asked 42:6
animals 134:17	anybody 37:5	126:7 209:1	22:16 26:15,19	43:11,17 46:14
anniversary	150:10 307:17	255:1 280:23	26:22 27:1,12	56:16 59:17
389:8	341:16,22	353:14 465:16	27:19 28:7	63:16,19 66:20
answer 10:5	451:20	appreciated	38:14,20 39:12	67:16 80:17
15:22 41:21	anyway 237:9	122:22	41:17,24 42:7	81:18 88:12
45:23 48:20	460:20	approach	42:9,13 60:14	97:6,6,17,18
59:3 63:20	apart 340:3	128:22 163:5	61:13,23 62:15	98:1 103:9
65:3,11 66:12	391:16	appropriate	62:22 63:18	106:3 138:19
67:17 68:7,8	apologize 40:19	168:5 223:22	65:1,6,8 67:8	138:20 141:2
91:21 99:10	71:13,20 72:1	463:3 473:15	67:22 68:1	143:22 144:11
133:16 136:8	87:10 232:21	473:16 518:6	69:18 70:24	144:20 145:1
	1	1	1	•

				Page 524
170 10 100 17	. 20.12	404.11	202 0 200 15	210.11.24
178:18 182:15	assessing 20:13	484:11	283:9 300:15	218:11,24
189:7 190:15	157:11,13	associations	411:12	219:4 220:19
190:16 191:8	158:22	115:23 276:14	attempted 48:15	222:20 223:3
209:12 211:13	assessment 6:19	277:24	408:4	231:9 237:10
211:20 216:17	33:22 43:12	assume 16:6,19	attempting	237:19 247:17
228:9,15,24	90:19 142:14	76:4 98:5	296:15	253:17 254:4
286:20 306:14	145:24 220:11	108:16 177:1	attendant 44:10	257:19,24
314:13 328:2,9	252:9 257:19	177:22 178:8	115:6 146:16	259:19 261:4
328:17 332:3	345:17 376:15	217:5 218:2,24	154:7 181:2	267:3 272:14
341:21 348:21	420:11 428:19	243:1 265:18	288:21	273:7,7,14,15
353:9 366:18	436:7 477:19	323:16 331:16	attention 28:14	275:11 279:13
367:8 371:17	504:9 509:15	372:24 429:9	40:4 486:20	279:23 280:14
371:23,24	assigned 215:22	473:17 479:2	attenuated	287:14 309:1
372:10 376:8	assignment 43:8	482:10,22	78:16	334:10 344:11
384:3 413:6	43:20	483:3,5,14	attorney 518:16	350:16 351:1,9
454:6 479:4	associated 17:15	484:3,17	attributable	351:12,17
515:10	20:3 80:2	491:12 494:6	191:17 199:13	358:9,16
asking 16:4	158:3 175:20	498:16 505:24	241:24	359:16 360:13
24:10,14 27:16	176:7 182:8	506:2,4 507:18	attributed 444:8	362:7,20
97:10 141:6	189:19 243:24	assumed 408:24	author 6:16	367:14 374:1
152:18 167:13	245:6,16	assuming 35:2	121:21,23	376:21 379:9
167:21 168:1	265:11 266:4	226:19 297:13	122:2 152:19	379:15 394:2
168:10 184:15	301:15 454:18	319:18 323:20	184:9,18 194:1	395:13 397:12
195:14 196:3	association 6:22	326:20 369:1	194:22 211:17	397:21 401:5
208:11 212:11	7:12 87:18	423:19,20	249:4 257:5,18	401:23 402:23
292:11 297:17	124:9 149:23	433:15 444:1	264:2 287:3,6	411:13,16,22
332:16 348:19	150:4,8 164:8	491:23	287:9,12 300:2	412:10 413:18
370:21 371:24	165:2 202:16	assumption	399:4 445:8	414:5 417:8
372:3 385:10	203:23 220:23	178:1,3 265:13	author's 211:14	418:8 423:10
422:10 440:16	229:6 246:14	279:1 331:24	authored 468:23	424:5,7 427:14
458:11,15	246:19 247:16	337:6 369:11	authoritative	428:18 430:7
480:10 483:6	249:21 259:9	436:23 479:12	195:14	431:17,24
483:11,14,24	259:12 260:11	480:9 481:5,10	authority	435:24 436:7
485:12 500:11	260:18 262:15	481:20 485:1	194:13,18	436:11,18
asks 482:13	265:15 268:20	assumptions	195:4,19 196:5	437:13 439:19
511:16	272:3 307:23	107:24 108:7	199:11 219:8	439:19 441:4
aspect 429:22	310:6 312:22	108:11 332:1	219:13,16	443:2,6,9,13
aspects 430:9,15	313:9 351:4	341:2	372:17 373:1	444:18 445:3,4
aspirin 452:19	357:16 374:15	atomic 326:14	authors 89:1	445:14,17,19
453:23 454:12	375:10 378:10	331:22 335:17	121:24 123:4	446:23 454:16
454:17 455:11	408:23 409:11	336:11 353:5	147:24 178:15	487:18 488:5
455:15 456:3,9	420:16 429:11	attached 51:16	184:24 190:19	492:10
456:15 457:10	432:8 433:21	52:24 57:12	201:3,6 203:12	authors' 476:21
459:6,17	443:5 444:19	105:6 117:4	210:17 212:16	available 220:20
461:17	445:6 446:16	518:12 520:11	212:21 214:15	224:18 325:18
assess 391:19	453:22 454:1	attempt 48:22	215:1,17	419:13 420:18
assessed 509:16	476:15 484:10	122:9 123:5	217:11 218:3	504:5
	I	I	I	ı

Avenue 1:14 397:6 400:24 508:21,22 221:14,17 409:23 471: 11:9 421:20 428:14 511:7 243:10 245:5 472:19 average 405:7 431:5 435:19 basis 47:24 245:10,20 Berge's 227:8 30:14 31:15,20 476:8 477:23 336:15,16 267:19,22 230:16 best 130:5 30:14 31:15,20 486:6 489:16 357:20 36:6 268:2,3 271:2 197:18 28:2 79:9 94:1,4 510:12 433:11 447:18 282:1 285:17 302:23 488: 79:9 94:1,4 510:12 433:11 447:18 282:1 285:17 302:23 488: 244:20 245:1,3 baked 283:22 balance 229:13 baked 283:22 beach 2:4 362:22 369:17 489:5,22 49 247:6 253:10 base 442:6,12 base 47:19 264:16 411:4 413:6 409:4 410:23 388:21 413: 306:19,23 18:14 43:12 base 47:19 264:16 411:4 413:6 449:449:49:619 372:1 373:11 409:1,2,10 179:1 185:13 307:10 308:5 45:15,23 199:114 29:49 496:1,2,10 179:1 185:13
11:9
average 405:7 431:5 435:19 basis 47:24 245:10,20 Berge's 227:8 aware 28:6 30:7 30:14 31:15,20 46:49,9473:23 285:12 322:14 261:14 267:15 best 130:5 30:14 31:15,20 486:6 489:16 357:20 362:6 268:2,3 271:2 196:17 197: 229:18 243:22 197:18 282: 79:9 94:1,4 510:12 433:11 447:18 282:1 285:17 302:23 488: 144:23 154:17 229:19 243:22 22 243:22 244:20 245:1,3 302:23 488: 247:6 253:10 253:16 267:2 288:12,14 264:16 295:5 308:7,10 489:5,22 49 246:64:7,9 264:16 295:5 308:7,10 489:5,22 49 246:17:19:2 264:16 295:5 308:7,10 489:5,22 49 246:17:19:2 264:17:19:7 264:16 295:5 308:7,10 489:5,22 49 246:17:19:7 264:17:19:7 264:16 411:4 410:23 489:1,22 49:12 41:44:10:23 251:29 264:16 411:44:413:6 489:22 29:2 449:11 449:16 451:15,23 196:11 198:19:19 264:15,23 196:11 198:19 264:11 451:15,23 196:11 198:19 2
avoid 15:18 446:11 453:13 123:15 124:8 248:18 252:7 230:16 30:14 31:15,20 476:8 477:23 336:15,16 267:19,22 196:17 197: 32:2,8 42:23 486:6 489:16 357:20 362:6 268:2,3 271:2 197:18 282: 79:9 94:1,4 510:12 433:11 447:18 282:1 285:17 302:23 488: 144:23 154:17 29:19 243:22 baked 283:22 447:22 464:16 295:5 308:7,10 489:5,22 49 244:0 245:1,3 bank 395:20,21 bear 75:8 369:21,22 better 197:15 388:21 413: 253:16 267:2 base 442:6,12 becoming 409:4 410:23 512:9 288:12,14 306:19,23 18:14 43:12 began 38:4 41:4 9436:19 210:9 333:12 390:19 48:9,16 48:18 41:14 351:19 437:13 1447:9 bias 137:18 391:1 419:2,11 61:16 62:10,11 352:10 368:21 451:15,23 196:11 198: 406:1,2,10 179:1 185:13 307:10 308:5 487:4 50:11 525:17 456:13 199:14 226: B 3:17 5:10 6:2 264:24 268:11 bekavior 325:18
aware 28:6 30:7 461:4,9 473:23 285:12 322:14 261:14 267:15 best 130:5 30:14 31:15,20 476:8 477:23 336:15,16 267:19,22 196:17 197: 32:2,8 42:23 486:6 489:16 357:20 362:6 268:2,3 271:2 197:18 282: 79:9 94:1,4 510:12 433:11 447:18 282:1 285:17 302:23 488: 144:23 154:17 baked 283:22 447:22 464:16 295:5 308:7,10 489:5,22 49 229:19 243:22 balance 229:13 beach 2:4 362:22 369:17 489:5,22 49 244:20 245:1,3 bark 395:20,21 bear 75:8 369:21,22 better 197:15 244:20 245:1,3 base 445:6,12 becoming 409:4 410:23 369:21,22 288:12,14 based 7:19 264:16 411:4 413:6 409:4 410:23 369:21,22 333:12 390:19 44:9,16 48:18 41:14 35:19 41:14 413:6 409:4 410:23 41:49 436:19 210:9 333:12 390:19 44:9,16 48:18 71:24 76:5 41:14 35:19 437:11 447:9 45:15,23 196:11 198: 491:10 495:19 156:1 164:23
30:14 31:15,20
32:2,8 42:23
79:9 94:1,4 510:12 433:11 447:18 282:1 285:17 302:23 488: 489:5,22 49 144:23 154:17 baked 283:22 balance 229:13 bach 24:26 46:16 295:5 308:7,10 489:5,22 49 229:19 243:22 bank 395:20,21 bar 45:20 bach 27:8 369:21,22 better 197:15 247:6 253:10 base 442:6,12 base 442:6,12 becoming 409:4 410:23 388:21 413: 288:12,14 306:19,23 18:14 43:12 began 38:4 41:4 9436:19 bias 137:18 391:1 419:2,11 61:16 62:10,11 61:16 62:10,11 352:10 368:21 451:15,23 196:11 198: 137:18 440:5 491:2,8 87:20 150:15 59:10,21 97:7 455:17 456:13 199:14 226: 458:21 496:1,2,10 179:1 185:13 307:10 308:5 487:4 501:11 252:16,21 501:18 510:8 188:2,13 379:2 380:12 525:10 260:8 378:8 469:7 526:8 275:18 526:10 252:4 253:20 254: 256:20 257: 256:20 257: 256:20 257: 256:20 258: 252:10 260:8 378:8 469:7 50endit 33:16,19 259:14,15,22 259:14,15,22 259:14,15,22 259:14,15,22 259:14,15,2 259:1
144:23 154:17
Detail
244:20 245:1,3 247:6 253:10 253:16 267:2 288:12,14 258:12,14 264:16 264:16 210:9 264:16 210:9 21
247:6 253:10 bar 445:20 base 442:6,12 becoming 409:4 410:23 512:9
253:16 267:2 base 442:6,12 based 7:19 264:16 411:4 413:6 Beware 204:7 306:19,23 333:12 390:19 44:9,16 48:18 41:14 351:19 437:11 447:9 bias 137:18 391:1 419:2,11 437:23 438:18 71:24 76:5 beginning 1:15 454:20,23 198:21 199: 496:1,2,10 179:1 185:13 307:10 308:5 487:4 501:11 252:16,21 501:18 510:8 512:16 204:21 219:7 244:22 252:5 252:10 260:8 378:2 49:10 49:10 495:19 264:24 268:11 7:2 8:2 9:2 41:14 329:11 333:10 8aby 16:15,21 335:23 341:3 335:
288:12,14 based 7:19 264:16 411:4 413:6 Beware 204:7 306:19,23 18:14 43:12 began 38:4 41:9 436:19 210:9 333:12 390:19 44:9,16 48:18 41:14 351:19 437:11 447:9 bias 137:18 391:1 419:2,11 61:16 62:10,11 352:10 368:21 451:15,23 196:11 198: 440:5 491:2,8 87:20 150:15 59:10,21 97:7 455:17 456:13 199:14 226: 491:10 495:19 156:1 164:23 116:12 270:4 458:23 470:9 226:10 252: 496:1,2,10 179:1 185:13 307:10 308:5 487:4 501:11 252:16,21 501:18 510:8 188:2,13 379:2 380:12 believes 340:24 253:20 254: 512:16 204:21 219:7 256:8 275:18 believing 179:15 254:22 256: 252:10 260:8 378:8 469:7 bench 153:22,24 256:20 257: 41:14 329:11 333:10 behaviors 252:4 behaviors 340:10 36:16 37:6 261:5 262:1 40at 40:8 50:21 375:17 402:12 28:20 36:4 36:16 37:6 261:5 262:1 53:14 65:24
306:19,23
333:12 390:19 44:9,16 48:18 41:14 351:19 437:11 447:9 bias 137:18 391:1 419:2,11 61:16 62:10,11 352:10 368:21 451:15,23 196:11 198: 437:23 438:18 71:24 76:5 beginning 1:15 454:20,23 198:21 199: 440:5 491:2,8 87:20 150:15 59:10,21 97:7 455:17 456:13 199:14 226: 491:10 495:19 156:1 164:23 116:12 270:4 458:23 470:9 226:10 252: 496:1,2,10 179:1 185:13 307:10 308:5 487:4 501:11 252:16,21 501:18 510:8 188:2,13 379:2 380:12 believes 340:24 253:20 254: 512:16 204:21 219:7 256:8 275:18 believing 179:15 254:22 256: 512:16 264:24 268:11 behavior 340:10 34:10,15,22 259:14,15,2 7:2 8:2 9:2 289:4 behaviors 252:4 35:12,24 36:6 260:3,5,14 41:14 329:11 333:10 belief 449:10 36:16 37:6 261:5 262:1 8aby 16:15,21 335:23 341:3 beliefs 284:7 benefits 33:4,12 264:19 267: back 40:8 50:21 </td
391:1 419:2,11 61:16 62:10,11 352:10 368:21 451:15,23 196:11 198:198:21 199:14 226:10 252:10 260:8 440:5 491:2,8 87:20 150:15 59:10,21 97:7 455:17 456:13 199:14 226:10 252:10 252:10 260:8 491:10 495:19 156:1 164:23 116:12 270:4 458:23 470:9 226:10 252:10 2
437:23 438:18 71:24 76:5 beginning 1:15 454:20,23 198:21 199:14 226:10 252:10,21 97:7 491:10 495:19 156:1 164:23 116:12 270:4 458:23 470:9 226:10 252:
440:5 491:2,8 87:20 150:15 59:10,21 97:7 455:17 456:13 199:14 226:10 252:16,21 491:10 495:19 156:1 164:23 116:12 270:4 458:23 470:9 226:10 252:16,21 496:1,2,10 179:1 185:13 307:10 308:5 487:4 501:11 252:16,21 501:18 510:8 188:2,13 379:2 380:12 believes 340:24 253:20 254: 512:16 204:21 219:7 256:8 275:18 believing 179:15 254:22 256: 244:22 252:5 256:8 275:18 bench 153:22,24 256:20 257: 375:2 8:2 9:2 264:24 268:11 behavior 340:10 34:10,15,22 259:14,15,2 41:14 329:11 333:10 belief 449:10 36:16 37:6 261:5 262:1 Baby 16:15,21 335:23 341:3 believe 14:2 benefiting 35:6 263:10,21 53:14 65:24 403:1 439:5 37:5 38:3 43:5 38:9 487:11 268:10 271: 53:12 84:23 442:8 447:24 43:24 49:7 229:23,24 272:9,13,15 72:16 84:23 464:19 494:2 51:21 54:8 231:20 233:9 274:5,11,24 93:5 94:2,6 50
491:10 495:19 156:1 164:23 116:12 270:4 458:23 470:9 226:10 252: 496:1,2,10 179:1 185:13 307:10 308:5 487:4 501:11 252:16,21 501:18 510:8 188:2,13 379:2 380:12 believes 340:24 253:20 254: 512:16 204:21 219:7 244:22 252:5 256:8 275:18 believing 179:15 254:22 256: 252:10 260:8 378:8 469:7 bench 153:22,24 256:20 257: 256:8 275:18 bench 153:22,24 258:3 259:6 41:14 329:11 333:10 329:11 333:10 34:10,15,22 259:14,15,2 259:14,15,2 Baby 16:15,21 335:23 341:3 335:23 341:3 36:16 37:6 261:5 262:1 53:14 65:24 403:1 439:5 37:5 38:3 43:5 37:5 38:3 43:5 36:16 37:6 264:19 267: 53:14 65:24 403:1 439:5 37:5 38:3 43:5 37:5 38:3 43:5 36:16 37:6 264:19 267: 53:12 88:20 464:19 494:2 51:21 54:8 231:20 233:9 272:21 273: 85:12 88:20 509:14 511:18 55:11 62:19 234:5 236:7 276:11 277:
496:1,2,10 179:1 185:13 307:10 308:5 487:4 501:11 252:16,21 501:18 510:8 204:21 219:7 begins 201:17 believes 340:24 253:20 254: B 204:21 219:7 256:8 275:18 believing 179:15 254:22 256: 244:22 252:5 256:8 275:18 bench 153:22,24 256:20 257: behavior 340:10 34:10,15,22 259:14,15,2 7:2 8:2 9:2 282:2 289:4 behaviors 252:4 35:12,24 36:6 260:3,5,14 41:14 329:11 333:10 belief 449:10 36:16 37:6 261:5 262:1 Baby 16:15,21 335:23 341:3 beliefs 284:7 benefiting 35:6 263:10,21 back 40:8 50:21 375:17 402:12 28:20 36:4 benign 487:11 268:10 271: 53:14 65:24 403:1 439:5 37:5 38:3 43:5 37:5 38:3 43:5 37:5 38:3 43:5 72:16 84:23 442:8 447:24 43:24 49:7 229:23,24 272:21 273: 85:12 88:20 464:19 494:2 51:21 54:8 231:20 233:9 274:5,11,24 93:5 94:2,6 509:14 511:18 55:11 62:19 234:5 236:7
501:18 510:8 188:2,13 379:2 380:12 begins 201:17 believes 340:24 believing 179:15 253:20 254:22 256:20 B 244:22 252:5 256:8 275:18 bench 153:22,24 dench 153:
B 204:21 219:7 begins 201:17 believing 179:15 254:22 256:20 257:18 B 3:17 5:10 6:2 252:10 260:8 378:8 469:7 bench 153:22,24 256:20 257:20 257:20 7:2 8:2 9:2 264:24 268:11 264:24 268:11 264:24 268:11 264:24 268:11 258:3 259:60 Baby 16:15,21 32:14 99:7 335:23 341:3 335:23 341:3 335:23 341:3 36:16 37:6 261:5 262:1 back 40:8 50:21 375:17 402:12 28:20 36:4 26:20 36:4 36:16 37:6 26:15 262:1 53:14 65:24 403:1 439:5 37:5 38:3 43:5 37:5 38:3 43:5 37:5 38:3 43:5 37:5 38:3 43:5 37:21 54:8 37:21 54:8 229:23,24 272:21 273:21 2
B 244:22 252:5 256:8 275:18 bench 153:22,24 256:20 257:25 B 3:17 5:10 6:2 264:24 268:11 behavior 340:10 34:10,15,22 259:14,15,2 7:2 8:2 9:2 282:2 289:4 behaviors 252:4 35:12,24 36:6 260:3,5,14 41:14 329:11 333:10 belief 449:10 36:16 37:6 261:5 262:1 Baby 16:15,21 335:23 341:3 beliefs 284:7 benefiting 35:6 263:10,21 32:14 99:7 341:21 373:14 believe 14:2 benefits 33:4,12 264:19 267:1 back 40:8 50:21 375:17 402:12 28:20 36:4 benign 487:11 268:10 271: 53:14 65:24 403:1 439:5 37:5 38:3 43:5 37:5 38:3 43:5 38:9:12 88:20 464:19 494:2 51:21 54:8 231:20 233:9 274:5,11,24 93:5 94:2,6 509:14 511:18 55:11 62:19 234:5 236:7 276:11 277:
B 252:10 260:8 378:8 469:7 benefit 33:16,19 258:3 259:6 7:2 8:2 9:2 282:2 289:4 behavior 340:10 34:10,15,22 259:14,15,2 41:14 329:11 333:10 belief 449:10 36:16 37:6 261:5 262:1 Baby 16:15,21 335:23 341:3 belief 284:7 benefiting 35:6 263:10,21 32:14 99:7 341:21 373:14 believe 14:2 benefits 33:4,12 264:19 267: back 40:8 50:21 375:17 402:12 28:20 36:4 benign 487:11 268:10 271: 53:14 65:24 403:1 439:5 37:5 38:3 43:5 37:5 38:3 43:5 37:29:23,24 272:29,13,15 85:12 88:20 464:19 494:2 51:21 54:8 231:20 233:9 274:5,11,24 93:5 94:2,6 509:14 511:18 55:11 62:19 234:5 236:7 276:11 277:
B 3:17 5:10 6:2 264:24 268:11 behavior 340:10 34:10,15,22 259:14,15,2 7:2 8:2 9:2 282:2 289:4 behaviors 252:4 35:12,24 36:6 260:3,5,14 41:14 329:11 333:10 belief 449:10 36:16 37:6 261:5 262:1 Baby 16:15,21 335:23 341:3 beliefs 284:7 benefiting 35:6 263:10,21 back 40:8 50:21 375:17 402:12 28:20 36:4 benefits 33:4,12 264:19 267:1 53:14 65:24 403:1 439:5 37:5 38:3 43:5 37:5 38:3 43:5 37:5 38:3 43:5 72:16 84:23 442:8 447:24 43:24 49:7 229:23,24 272:21 273:1 85:12 88:20 464:19 494:2 51:21 54:8 231:20 233:9 274:5,11,24 93:5 94:2,6 509:14 511:18 55:11 62:19 234:5 236:7 276:11 277:1
7:2 8:2 9:2 282:2 289:4 behaviors 252:4 35:12,24 36:6 260:3,5,14 41:14 329:11 333:10 belief 449:10 36:16 37:6 261:5 262:1 Baby 16:15,21 335:23 341:3 beliefs 284:7 benefiting 35:6 263:10,21 53:14 99:7 341:21 373:14 believe 14:2 benefits 33:4,12 264:19 267:1 back 40:8 50:21 375:17 402:12 28:20 36:4 benign 487:11 268:10 271:1 53:14 65:24 403:1 439:5 37:5 38:3 43:5
41:14 329:11 333:10 belief 449:10 36:16 37:6 261:5 262:1 Baby 16:15,21 335:23 341:3 beliefs 284:7 benefiting 35:6 263:10,21 back 40:8 50:21 375:17 402:12 28:20 36:4 benign 487:11 268:10 271: 53:14 65:24 403:1 439:5 37:5 38:3 43:5 37:5 38:3 43:5 38:20 29:23,24 272:9,13,15 85:12 88:20 464:19 494:2 51:21 54:8 231:20 233:9 274:5,11,24 93:5 94:2,6 509:14 511:18 55:11 62:19 234:5 236:7 276:11 277:
Baby 16:15,21 335:23 341:3 beliefs 284:7 benefiting 35:6 263:10,21 back 40:8 50:21 375:17 402:12 28:20 36:4 benign 487:11 268:10 271: 53:14 65:24 403:1 439:5 37:5 38:3 43:5 37:5 38:3 43:5 37:2:16 84:23 37:2:16 84:23 442:8 447:24 43:24 49:7 229:23,24 272:21 273: 85:12 88:20 464:19 494:2 51:21 54:8 231:20 233:9 274:5,11,24 93:5 94:2,6 509:14 511:18 55:11 62:19 234:5 236:7 276:11 277:
32:14 99:7 341:21 373:14 believe 14:2 benefits 33:4,12 264:19 267:19 back 40:8 50:21 375:17 402:12 28:20 36:4 benign 487:11 268:10 271:19 53:14 65:24 403:1 439:5 37:5 38:3 43:5<
back 40:8 50:21 375:17 402:12 28:20 36:4 benign 487:11 268:10 271: 53:14 65:24 403:1 439:5 37:5 38:3 43:5 37
53:14 65:24 403:1 439:5 37:5 38:3 43:5 Berge 9:14 272:9,13,15 72:16 84:23 442:8 447:24 43:24 49:7 229:23,24 272:21 273: 85:12 88:20 464:19 494:2 51:21 54:8 231:20 233:9 274:5,11,24 93:5 94:2,6 509:14 511:18 55:11 62:19 234:5 236:7 276:11 277:
72:16 84:23 442:8 447:24 43:24 49:7 229:23,24 272:21 273: 85:12 88:20 464:19 494:2 51:21 54:8 231:20 233:9 274:5,11,24 93:5 94:2,6 509:14 511:18 55:11 62:19 234:5 236:7 276:11 277:
85:12 88:20
93:5 94:2,6 509:14 511:18 55:11 62:19 234:5 236:7 276:11 277:
1 07.22 00.2
97:22 98:3 513:23 514:3 64:24 65:5,8 237:1,6 238:4 277:10,12,2
126:15 129:10 baseline 78:16 67:22,24 69:7 238:4 259:11 278:11 280:
129:16 130:7 376:5 70:3 92:2 261:21 290:12 290:22 291:
136:16 146:11 bases 37:17 99:14,14,24 290:17 314:5 291:19 292:
150:21 167:7,8 basic 57:1,5,16 121:16 127:17 318:11 319:3 307:14 314:
179:15 239:19
258:14,20 153:12 205:11 151:1 157:19 320:24 321:8 biased 189:10
269:16,19 461:2 157:21 163:2 322:5,7,13,15 290:20 291:
287:10 320:20 basically 225:11 174:17,19 322:22,22,22 291:24
321:17 327:17 227:8,8 231:10 177:2,21 180:2 328:23 329:9 biases 205:4
328:23 343:22
348:15 384:1 basing 52:3 212:13 213:24 408:11 409:6 152:14

_				Page 526
DIDDI E 4 Z	450.12	120.016	200.1	420 15 10
BIDDLE 3:7	450:13	430:9,16	398:1	428:15,19
big 264:6 300:5	bodies 423:4	431:15 436:6	buried 148:14	430:7 431:16
389:11 436:22	body 7:12 29:14	477:18	business 281:19	436:7 439:20
biggest 122:18	43:13,16 57:9	branch 494:9	305:20	446:11 477:16
236:23 238:24	67:9 120:8	BRCA 455:22	businesses	Canada's
bill 112:24	133:2,5,21,24	break 25:7	495:21	142:13 143:12
biologic 116:6	134:2 136:24	73:11 125:10	Buz'Zard	419:17
126:21 162:15	206:16,20	125:19,24	139:13 162:16	cancer 6:13,23
164:18 165:9	210:19 231:17	126:3,5,13	163:19 165:24	7:7,10,13,14
165:22 296:13	235:4 272:4	223:23 239:17	166:5 167:2	7:22 8:7,10,13
308:2 340:1	276:10,14	285:1 343:16	<u>C</u>	8:15,17,21
391:16 394:22	289:11 312:8	343:20 348:19	C5:23	9:14,16,18
395:8 401:2	389:12 390:11	421:14,18	CA-125 434:7	13:3,11 14:15
403:8 430:14	483:1,15,21	485:20 486:4	434:17	17:5,9,11,17
431:14 432:7	498:3 509:6	breaking 125:15	CALCAGNIE	18:19,22,24
437:7 460:14	bomb 326:14	239:11	2:3	19:6,18,22,23
477:19	331:22 335:17	breast 244:6,12	California 2:4,9	20:2 21:4,16
biological	336:11 353:5	244:21	7:8 226:11	21:17,20,20,22
164:13	Bonovas 453:14	Brief 348:13	call 40:3 49:8	22:8,13 23:2,4
biologically	book 100:18	453:11 473:12	123:19 150:10	23:10,21 24:23
140:6 174:1,13	101:6 287:19	briefings 37:19	158:14 184:19	25:3,4,8,24
393:5 394:6	Boston 3:4	bring 26:7	201:10 214:16	28:2,9,19,22
401:6,24 422:1	226:8	120:22 314:14	242:22 392:18	30:9,16 31:16
422:19 423:12	bother 194:10	363:5	426:4 458:7	32:4,13 37:23
427:16 436:12	219:21 315:9	bringing 118:23	470:22 498:10	44:4,16,23
437:12 439:21	bothered 392:7	broad 64:2	called 151:23	46:13 56:24
440:7 441:5,20	bottle 100:15,17	101:13 139:7	273:19 299:23	60:15 61:14,20
492:17	101:9 102:2,3	broader 191:6	calling 298:20	61:23 62:16,23
biologist 153:7	500:20 501:4	Broadway 2:8	427:8 490:5	63:14,19 65:2
153:13	bottom 181:10	broke 409:8	calls 387:13	65:6,10 67:23
biomarker	181:11,16,21	broken 387:18		68:2 69:13
151:20	200:8 210:8	brought 87:4	camera 211:19 348:9	70:1,11,20
Birrer's 135:22	334:21 358:2	103:15 294:23	Campus 3:8	71:2 77:15,24
140:15,17	429:24 430:4	304:1 495:4	Campus 5.8 Canada 143:20	78:2,22 79:19
bit 42:14 61:6	486:21 497:2	BROWN 2:8	143:23 144:4	79:20 86:23
87:3 88:1	Boulevard 3:4	468:12,14		87:19 88:24
240:23 336:1	bound 16:2	brushing 250:20	144:13,20 145:24 171:10	89:4,6 90:2,4,8
445:20	box 244:21	Bucketing		90:9,14,21
black 244:20	319:13	215:19	171:21 220:3,6 220:11 222:21	91:7 93:11
Blair 156:18	boy 487:2	built 283:21	258:21 261:4	95:11,16 97:9
157:5 292:4	Bradford	bumped 491:22	324:24 325:9	97:24 98:18
blocking 445:10	115:20 160:5	492:5	329:5 331:7	100:5 101:7,17
BLOOD 2:7	161:14 164:5	bumpers 196:14		113:18 116:10
blue 186:18	233:19 246:5	196:14 205:20	402:15,18 403:7,11 414:1	120:7,8,9,14
187:1,2,3	247:11 427:15	bunch 221:14	414:2 419:3	120:15 124:10
189:21 270:1	428:21 429:4	226:4		138:2 145:8,15
board 448:22	429:11,15	burden 396:7,11	420:4,7 427:13	149:9 151:12
	1	1	1	1

				Page 527
	l	l	l	
151:19,22	378:14,18	17:4 19:14	carefully 93:8	238:12 240:2,8
153:5,7 165:3	380:4 385:13	20:1,7,8,10,14	518:4	241:4,11,16
165:23 174:16	386:1,4 394:5	21:7,10,13	caring 243:15	252:8,15,21
174:20,23	396:20 405:9	96:11,17 97:1	carried 306:22	257:7 268:11
175:7,16,20	405:12,16	97:5,8,12,13	366:21	272:1,23 274:6
176:8 180:12	408:6 409:21	97:21,23 98:7	carries 15:9	274:12 275:1
182:2,9 189:19	410:19,20	98:21 99:9,16	244:20	282:9,20 283:4
205:17 206:8	413:12 419:6	99:20 101:16	carry 207:21	290:8,15
206:12 221:1	419:19 420:16	101:19 102:2,4	332:10,10	293:24 294:5
224:21 241:6	421:9 432:12	228:5 326:9,19	cascade 432:11	294:12 295:12
243:11,24	432:20 433:12	335:16 336:24	case 14:10 38:2	298:18 304:24
244:4,7,12,21	433:18 434:6	396:15,16,24	39:4 40:23	306:21 307:15
245:6,16	443:24 444:21	420:2 421:5,8	44:14 45:22	307:21 308:8
246:15,20	446:18 447:13	421:12 491:14	46:8 47:16,20	308:16 309:16
248:12 249:19	447:24 448:2	492:22 501:13	48:1 49:22	309:23 310:4
252:10,17	449:9 450:5,14	510:24	50:8 60:12	311:15,17
253:19 254:6,8	451:10,14	carcinogenesis	94:3 110:2,3	312:19 313:1,4
256:16,23	452:16,20	57:6 425:15	113:13 152:6	313:5,11 314:4
262:23 265:12	453:17,23	carcinogenic	152:16 154:6	315:13 319:1
266:17 267:5	454:2,13,19	17:7 74:23	162:18,22	324:4 325:1
272:4,17	455:5,14 456:1	75:15 76:2	181:13 182:3	329:4 381:10
276:15 278:14	456:8,16 460:1	85:16 109:14	227:1 228:19	453:19 506:11
280:17 306:20	461:23 464:19	369:13 451:1	292:6 305:9	cases 1:8 13:11
310:2,21	465:3,7 466:5	carcinogenicity	307:5 313:18	44:10 52:4
311:12,23	466:13 467:9	22:4 57:17	324:1 332:23	53:14 56:23
312:1 316:5	468:21 470:8	58:6 89:19	339:7 346:11	58:20 93:9,17
317:9,10	476:16 479:15	90:1 95:2	366:16 386:14	93:19,24 94:1
324:11 325:13	479:23 480:17	140:7 142:9	398:11 434:10	94:5 247:3
325:18 326:5,6	481:24 482:6	249:5 393:6	448:12 449:1	263:4,6 264:15
326:7,11,13,16	484:15 487:2,7	394:21 419:15	491:15 497:22	266:19 280:5
327:1,10 331:8	487:21 488:17	439:6 491:4	512:15 515:5	317:23 325:15
331:17,18	501:3 505:21	carcinogens	case-control	391:2 392:1
332:23 334:11	507:20 508:11	59:2,2 71:12	100:24 115:18	397:1 450:5
334:23 336:4	508:11 510:15	96:7	137:8 148:22	catch 28:14
336:19,23	512:13 515:9	carcinoma	149:11,15,21	385:1
337:4,15,17	cancers 26:10	152:2 311:1	150:6,14 182:5	categorical
338:16 340:1	43:14 378:20	448:20 449:14	182:23 183:12	216:3
342:4 347:5	452:7	476:17	183:23 187:19	categorically
351:5 353:17	capable 209:5	carcinomas	188:1,12 189:1	215:23
354:17,23,24	capacity 145:7	461:13	191:9,20	categorization
355:7,10,11	151:16	care 9:9 13:14	192:16 193:1	217:12
356:19 357:10	capture 325:15	77:19 243:18	198:18 206:22	Categorizing
357:18 358:1	captured 344:11	288:20 289:4	219:5 222:4,6	215:16
363:2 367:7,8	344:16 389:4	396:21 450:15	222:17 226:7	causal 18:18,20
367:16 369:2,5	capturing 388:4	514:4	231:23 233:11	46:11 87:18
370:7 372:11	carbon 135:23	career 28:19	234:12 235:2,4	393:23 419:5
374:17 378:12	carcinogen 17:3	careful 67:5	237:3,13	419:19 420:18
		1	1	1

				Page 528
121 2 126 2	l		l	
421:2 436:8	425:17	242:1 290:14	335:14 337:8	23:17 33:18
causality 157:11	CEBMA 281:15	326:15 329:2	citations 129:17	46:20 47:11,15
410:12	cell 19:12 152:2	354:13 409:17	335:21	52:13 54:2,3
causation 6:11	250:2 260:22	change 175:3	cite 76:6 98:16	100:1 152:17
44:9 108:17	261:1 409:6	253:7 255:10	132:4 229:19	166:21,24
110:15 155:23	cells 19:11	293:11 368:9	261:12,13,15	190:1,14 191:5
165:10 171:8	433:18 460:19	417:11 433:17	261:16,17,20	385:10 465:13
171:19,21	cement 63:8	492:23 494:8	275:3,10	490:3
172:6 499:7	69:10	497:22 499:7	276:18 285:19	clarifying 99:3
causative 421:8	Center 12:18	499:13 510:16	290:24 356:16	191:4
cause 17:8 28:9	281:14 301:3	511:9 513:18	372:16 379:17	Clarke-Pearson
44:15,23 60:14	427:3 428:11	519:4	380:4 381:23	156:17 157:4
61:14,23 62:16	Central 7:7	changed 412:11	383:6 432:2,14	Clarke-Pears
62:23 63:18	certain 9:20	514:3	437:8 438:9	137:20
65:1,6 67:23	28:1,1 77:13	changes 252:4	443:22 460:7	class 275:12
68:2 95:11	101:23 106:18	293:9 511:19	cited 45:19	276:8 286:14
97:9,24 101:7	251:18,19	518:11 520:10	61:17 62:8	classification
116:10 174:18	259:23 262:13	changing 371:11	93:14 180:3	493:11 510:22
175:6,12,15	266:19 284:6	characterizing	199:10 285:23	classify 94:11
210:13 224:21	394:20 456:7	168:12	331:3 333:20	clean 29:1
276:24 337:4	496:3 497:9	check 309:13	352:2 382:4	clear 15:23
339:24 432:12	502:10 504:2	384:15	418:19 458:21	16:10 51:24
432:19 433:11	certainly 412:7	chemical 151:23	459:1,21,23	69:7 88:11
434:5 447:20	certainty 17:24	chemotherapies	cites 248:24	152:2 180:24
447:24 465:7	18:10,14 372:5	320:11	259:8,11	202:13 264:10
504:12 507:20	CERTIFICA	chemotherapy	378:13,14,24	294:18 357:3
508:11 510:15	517:2	320:8,9	382:20 444:17	409:6 421:23
512:13	certification	Cheryl 147:2,18	446:18	428:4 458:19
caused 18:21,23	517:18	Chicago 4:4	citing 185:12,13	515:4
19:5 277:10	Certified 1:16	child 399:8	263:17 379:10	clearly 78:3
396:20 461:24	1:16 517:13,14	choose 361:22	381:3 437:14	87:20 95:8
causes 17:5 20:4	certify 517:5	chromium	488:5	100:3,6 127:15
28:18,21 43:14	520:5	109:6	claim 136:22	147:13,17
44:4 77:15,24	certifying	chronic 174:14	150:13 194:14	204:23 358:3
78:1 138:2	517:22	174:18 448:8	194:19 199:16	379:24 457:18
174:20 205:17	cervical 120:14	451:4	201:10,19	clinical 86:7
277:6 331:16	120:15	chronological	204:1 268:18	205:13 275:2
336:23 337:15	cervix 205:17	270:7	336:17	288:19 289:4
433:18 448:17	cgarber@robi	churning 236:4	claims 199:11	302:24 304:2
479:22 480:16	2:5	cigarettes	217:13	305:9 330:16
481:24 482:6	challenged	342:15,15	Claire 495:22	335:3 448:13
505:20	266:23	circle 258:14	Claire's 9:20	453:20
causing 331:18	chamber 260:9	circumstances	496:5 497:10	clinician 242:12
431:19	chance 27:18	303:2	497:17 498:9	clinicians 67:5
caution 321:2	150:11 188:21	citation 138:12	clarification	295:11
caveat 373:4	191:17 193:21	285:16 286:3	24:14 59:14	close 125:13
cavity 423:5	199:13 228:18	303:3 333:19	clarify 16:5	318:19 474:22
			l	

				Page 529
			I	
closer 73:19	356:11 357:15	264:10 265:24	134:4	208:22 210:18
356:7	361:15 373:10	266:23 297:10	comparison	210:23 211:2,8
closest 324:19	378:10,21	308:12 321:14	101:5	212:22 213:1,8
closing 100:17	405:21 406:4	360:19 410:7	comparisons	249:5 295:10
CMO 30:24	453:21 479:18	410:15 419:19	320:6	314:2,3,8,21
31:2	506:12	comes 196:7	compatible	356:8 480:12
co-author	cohorts 241:4	229:1 426:13	217:18	480:13,15
152:19	282:8 283:4	474:22 511:15	compel 502:18	513:10
co-carcinogen	298:17 304:24	coming 27:19,22	compelled 500:8	concerning
342:19	305:9 311:18	94:19 108:16	501:4	103:18 145:7
coached 209:15	313:16,18	161:5 172:15	compelling	concerns 61:2,3
coaching 208:9	315:11 316:11	179:14 227:4	484:13 505:20	313:20 411:10
208:11 209:2,6	363:11 364:21	228:23 320:1	compensation	conclude 90:16
209:12,14	366:4 401:1	399:12,17	107:12 114:15	202:14 203:21
cobalt 109:6	406:8,13	403:2 419:4,14	complete 26:5	217:11 362:7
Cochrane 304:5	coin 310:8	493:13	45:19 103:16	424:6,8 436:7
code 79:11,13	collaborate	comment	354:9	441:5
79:14	153:19	143:19,23	completed 51:7	concluded
cognitive 215:18	collect 388:9,10	144:2,12,21	completely	222:21 237:21
cohort 48:2	388:13	200:22	209:4 458:18	253:19 254:6
87:21 100:9	collected 256:19	commentary	completeness'	423:11 427:15
115:18 137:14	collecting	81:4	352:12,23	435:19 439:21
137:22 149:12	194:24	commenters	completion	447:2 477:17
170:14,22	collective 419:4	226:15	517:8	492:20 516:7
182:6 206:22	504:7	comments 67:2	comply 103:12	concludes
206:24 207:8	color 186:14,18	214:7,11	comprehensive	491:13
222:4,10,15	490:13	Commerce 2:14	90:19 91:23	concluding
237:3 238:11	color-coded	commercials	92:19,23	223:1
238:15 257:7	187:14 269:23	264:8	131:16 132:2	conclusion 88:5
282:19 290:6	column 87:13	commission	149:3 224:17	88:5,22 89:7
290:17 291:1	181:22,23	520:21	233:15 514:23	94:8 127:15
293:23 294:4	182:20 214:15	common 66:23	comprises	128:21,22
294:11 295:12	217:10 256:7	204:4 294:14	378:19	205:9 222:5
307:4,12 308:1	271:18 275:16	455:21 500:5	computer	224:11 227:4,5
308:9,15,22	293:4 334:19	commonly	106:18 107:2,5	228:4 229:2,5
310:14,19	351:1,13 377:5	260:15 294:19	107:8 187:11	419:18 435:23
311:2,15	377:21 486:20	community	concentration	493:14
313:21 314:15	combination	217:21	435:16,18	conclusions 67:3
314:17 315:4	243:1	company 154:12	concept 214:17	74:22 75:13,24
315:24 316:1	combine 222:3	154:21 478:16	339:13 389:13	76:5,8 77:11
316:15,18	222:12	478:21	concepts 293:10	85:15 91:10
317:8,14,23	come 26:10	compare 320:10	concern 14:13	210:9 211:14
324:4,9 325:2	47:12 55:17	474:16	151:11 152:5	conclusions'
325:16 329:2	88:21 89:6	compared	153:3,4 272:7	204:7
329:16 330:1	94:7 95:18	197:20 254:18	469:9 504:12	conditions
331:9 336:8	189:17 195:24	262:23 444:12	505:9,10,13	289:17 438:22
345:23 355:6	222:5 229:4,12	comparing	concerned 69:12	487:12
	<u> </u>	<u> </u>	I	<u> </u>

				Page 530
226.10	401 10 445 10	272.0	407.0	500 14 515 5
condoms 236:19	401:18 445:18	272:8	497:9	508:14 515:7
conduct 26:22	conjunction	consist 104:4,6	Cont'd 3:1 4:1	continues 168:3
119:21 145:13	449:15	157:1	6:2 7:2 8:2 9:2	503:24
153:15 284:24	connection	consisted 46:24	contact 84:6	contradictory
293:10,13	13:14 14:18	consistency	411:12	184:4 185:18
439:7	58:17 59:11	94:20 116:5	contain 96:10,11	210:12
conducted 22:2 91:22 126:20	106:7,14	137:11 158:8	96:23,24 97:13	contrary 128:4
	113:15,17	158:20 164:9	98:6,7 109:5	132:24 171:8
379:4 380:2	116:16 129:21	182:22 184:8	109:14 175:2	171:18
431:16 499:4	243:16 440:2	184:15 205:6	479:3 480:24	contrast 204:2
conducting	consensus	220:6 224:10	482:12,16	Contravening
145:5	173:10	225:12,21	483:23 485:2	93:13
conference 15:12	consent 338:14	226:1,2 233:20 410:11 429:14	504:15 505:4	contribute 61:20
_	340:8 352:18		contained	
confidence	352:20	consistent 68:17	109:23 115:15	contributed
149:24 187:5 189:4 193:23	Consequently 469:15	149:18,19 150:11 165:1	157:6 177:15	93:12 contributors
189:4 193:23 194:8 196:13	469:15 consider 24:6	182:24 183:2,7	228:1 241:6 353:8 492:19	205:10
196:23 197:14	97:19 98:20	183:13,23		control 305:10
202:5,21	131:5 149:18	184:5,11,20	containing 75:17 84:24	346:13,14
205:20 219:8	149:18 153:6	185:1,24	85:20,22	517:21
235:23 347:16	153:11 158:8	206:21 220:22	contains 97:11	controlled 285:4
348:23 353:18	189:11,12	200.21 220.22 221:18 222:22	102:4 148:3,18	controlled 283.4 controls 262:24
354:18 370:8	193:19 194:5	223:9,12	512:20	263:1 280:4
372:8 376:24	195:2 233:12	224:14 225:2,7	contaminated	324:2 435:15
378:16 386:5	272:16 279:23	225:17 227:12	498:15 506:14	controversial
386:10,12	307:2 336:22	227:13 233:19	contamination	284:20 285:14
387:2 474:21	352:5 370:24	260:22 272:10	122:10,20	convention
477:10	379:13 434:8	273:16,19	123:6,20	294:24
confidential	considerably	284:14 310:4,7	398:19 399:10	conversation
154:23	495:16	336:7 410:20	399:13,23	66:14 400:20
confirm 45:3	consideration	417:10 420:13	400:5,7 498:12	483:19 501:19
404:9	376:18	420:14 446:4	504:2 505:14	501:21
confirmation	considered 37:3	452:24	505:19 506:7	conversations
78:15 94:7,14	93:8,24 98:22	consistently	contend 126:24	502:4
confirms 449:10	98:24 107:21	149:7,17 158:2	content 154:15	convince 338:20
conflict 203:2	128:3 137:17	158:4 470:10	contention	481:23
confounder	155:12,19	consists 104:11	412:9	convinced 94:16
196:10	195:10 219:14	104:22	context 17:11	123:1 440:20
confounders	271:24 304:8	constant 169:7	18:19 19:4,17	convincing
205:3	304:11 323:4	constantly 48:23	19:21 27:12	99:11 482:5
confused 24:4	355:24 381:18	constitutes	34:4,23 35:13	492:4
82:22 365:2	419:3,12	195:18	59:4 286:22	copies 105:17,22
415:4	463:23	consulting 41:15	298:8 428:21	106:1,4 255:24
confusing 84:19	considering	42:22	429:4 430:9	408:2
conjecture	494:24	Consumer 84:2	continue 469:8	copy 39:24
398:13 400:10	considers 272:6	consumers 9:19	504:6 507:20	71:14,17,21
	<u> </u>	<u> </u>	<u> </u>	l

				Page 531
	l	l	l	
73:13 103:16	193:10 203:12	182:10,11	232:19 315:9	criticizing
148:9 151:2	204:17 206:8,9	183:19 184:3	315:12 372:10	312:18,20,23
186:14 417:17	206:11 216:5	201:23,24	458:7 518:20	313:11
417:18	219:1,9 225:6	203:7,10 204:8	cover 159:5	critique 172:13
Cornell 7:18	235:20 249:15	212:10 215:12	coverage 266:9	critiques 61:1
12:17 242:10	259:23 261:10	217:7 224:23	covered 372:16	173:2,7
301:2,20 302:5	265:1 275:4	224:24 259:17	covering 356:7	cross 187:5
302:16 448:21	281:11,16	272:11 276:16	COX 459:24	194:9 474:22
461:4	286:23,24	289:24 297:3	460:18,19	cross-examina
Cornell's 301:24	287:15 289:12	297:18 302:19	461:16 462:2,2	298:9
corners 161:3	296:19 305:11	322:23 351:7,8	COX-1 461:14	cross-trial 320:5
161:10 273:6	309:16 317:17	378:22,23	COX-2 461:14	crosses 189:4
273:13 356:17	317:20 333:9	420:20 431:21	Cramer 122:1	386:18,20
357:8 405:23	333:15 344:18	432:15,16	123:19,20	crossing 354:4
406:11	345:5,10 346:4	444:22 469:19	135:1 232:3,4	crucial 201:11
cornstarch	347:11,12,17	469:20 487:16	232:6,6 265:16	crude 264:14
514:8,19,24	349:1,4 350:2	504:10	338:24 340:23	cry 346:2
corollary 102:3	351:10,15	correlation	369:22 398:15	culture 19:12
434:17	353:19 355:1	132:6,17	398:16 399:5	cumulative
Corporate 2:4	360:14 363:24	391:22 397:6	399:12,13	344:17
correct 13:7,8	364:1,12	cosmetic 9:20	crazy 232:20	cure 73:10
18:10 20:17	367:11 368:3,4	33:1 84:3	create 148:24	curious 208:2
22:17,21 29:19	368:17,18,21	495:22 496:4	187:9	229:15 267:16
40:23,24 41:3	368:23 370:13	497:10 504:3	created 22:23	297:1 335:13
42:2 44:11,12	372:19 374:2	counsel 25:13,23	23:3,20 150:12	461:7
47:20 48:6	375:19 379:11	44:18 47:1	407:23	current 25:2
60:15 74:7,14	379:12 382:17	48:13 116:20	credible 176:3	currently
75:19 82:9	389:9,10 391:6	117:6,13 298:9	177:17 495:12	210:10 224:18
84:13 86:1	394:7 395:14	354:13 462:13	credit 28:18	439:15 491:3
89:20 95:3	401:8 402:5	478:9	Crest 250:21,24	515:12
105:7,8 106:2	403:13 404:2,8	count 233:10	criteria 160:6	Curry 3:3 16:23
111:23 112:8	405:24 406:13	counted 264:8	164:5 247:12	17:12 18:1,11
114:6,7,9,10	410:20 411:19	381:11	420:14 428:21	19:1,19 20:19
114:13 115:3,4	411:24 413:20	counting 399:15	429:5,11,15	24:1 25:15
115:7,8 116:17	426:10 432:3	countries	430:10	26:2,23 27:3
118:7 119:4,9	433:23 436:15	240:14,18	critical 9:9	27:13 28:3
124:21 125:6	438:17 440:9	counts 397:7,14	130:18,23	29:2,20 32:17
134:10,13	443:16 447:3	couple 55:21	criticism 162:9	33:7,13 34:17
140:2 142:15	451:4 465:2	88:18 130:10	312:13	34:24 35:15
143:2 146:4,17	470:14 472:23	315:23 336:1	criticisms	36:1 38:22
146:18 148:3	473:20 474:9	444:7 460:8	136:21,24	39:5,23 42:3
166:1 170:10	488:6,21,24	course 29:16	156:23 157:5	43:22 44:19
170:11 171:22	489:1,6 520:7	251:7 284:10	314:14,15	46:2 47:2 48:7
170.11 171.22	corrections	284:13 354:3	315:2 355:21	49:17 50:14
174:9 176:19	518:5,7 520:10	438:5	361:19 411:8	51:2,19 52:12
176:24 186:11	correctly 76:11	court 1:1 11:16	criticize 312:14	52:15,19 53:4
186:12,20,23	76:13 84:9	15:11,16 209:9	458:13	54:2,3,18
100.12,20,23	/0.13 04.3	13.11,10 209.9	430.13	34.4,3,10
L				

				Page 532
			l I	
55:22 56:11	183:6 185:2	318:5 319:8	464:10,20	62:11 64:4,7,8
57:19 58:8	188:4 190:22	327:12 328:1	466:22 468:8	70:17 72:13
60:5,16 61:24	192:3,17	330:7 331:11	469:2 470:15	74:16 106:15
62:17,24 63:21	193:12 195:5	333:1 335:7	472:8,15	106:17 107:19
65:16,21,23	196:18 197:4	338:6 340:20	475:23 477:20	115:17,22
66:4 68:5 70:3	198:13 202:7	341:4,8 342:10	480:5 481:2	137:7 149:7
70:12 72:19	202:22 203:13	343:8,12	482:18 484:19	164:16 171:8
74:1 77:4 79:6	204:12 207:1	344:19 345:11	485:4,23	171:19 177:3
80:20 81:15	207:12 209:4	346:5,16 349:5	487:22 489:9	177:14 178:15
84:14 89:21	211:5 213:5	349:20 350:19	491:5,17	178:17,19
90:22 91:24	215:3,9 216:6	354:9 355:12	492:24 494:11	179:3 184:11
92:10 95:4,20	218:4 219:10	356:20 358:11	496:7,16	184:19 185:1
96:12 98:8	221:6,21 223:4	359:1,10	497:23 499:8	185:23 187:13
99:21 101:20	223:21 225:3	360:16 362:10	500:2,13,21	188:1,12 189:9
102:7 103:6,19	230:10 231:4	364:5,13,23	501:8 504:16	194:24 197:10
104:13,23	232:15,22	365:8 366:6	505:6 506:21	202:4 216:3
106:8 107:15	234:16 235:7	369:7 370:18	507:23 508:16	219:5 220:7
108:12 109:7	235:13 237:15	372:20 375:20	509:23 510:18	224:19 225:2
109:15 112:15	237:24 238:20	377:6,11 378:1	512:3,22	225:14,19
113:22 116:21	239:10 241:13	379:20 381:7	513:12 514:10	227:3,6,9,10
117:7,23	242:2,13 244:1	382:23 385:6	514:16 515:23	228:24 229:9
118:18 119:5	244:14 245:8	385:19 386:6	curve 339:18	230:23 231:2
121:9 122:6,16	245:22 246:7	387:5,15 388:6	custom 25:23	235:6 236:5
124:11,23	246:22 248:3	388:14 391:7	cut 136:3 138:24	256:19 260:8
125:9,16 127:9	249:7,22	393:7 394:8,14	148:10 166:23	263:17 268:17
127:20 130:20	250:11 251:14	395:15 397:15	212:8	273:16,17
131:20,23	252:12 253:2	398:3,23	cutting 163:13	276:11 277:21
133:11 136:13	253:21 254:9	399:19 400:3	167:24	288:20 296:18
137:2 138:23	257:12,21	401:9 402:2,10	CV 22:6 150:22	314:1 324:22
139:6,23	259:24 262:8	406:1 408:1,17	152:13,22,23	330:15 336:7
141:15 142:3	265:5 267:8	410:21 412:13	153:17	337:16,18,20
142:16 143:3	268:13 272:24	412:21 413:21	cycle 438:1	339:21 358:17
146:6 147:5,11	276:2 277:18	414:19 417:16	CYNTHIA 2:3	362:4,8 366:20
148:8 150:17	278:16 279:2	419:8,21		370:1 373:15
152:7 153:8	282:11 283:13	423:17 427:19	D	379:18 384:9
155:2 156:3,14	286:16 287:24	431:8 432:21	D 5:2 488:23	386:5 390:20
157:17 159:1	288:9,23	433:6 434:1,19	D.C 3:18	392:9,15 393:3
160:20 161:7	289:21 291:4	435:6 436:16	daily 248:21	398:18 403:1
161:24 162:19	295:15 296:2	438:2 439:9	250:5 251:9,11	417:3,10
162:24 163:12	296:20 298:24	440:11 441:11	345:4	420:18,23
165:11 166:2,9	300:18 302:1	441:24 442:10	dangerous	423:8,23,24
166:12 167:15	303:12 304:14	447:4 448:3	501:13	436:8 438:13
170:16 171:12	305:16,22	451:5 452:21	data 21:8 30:7	438:18 440:6
170:16 171:12	305:16,22		30:14 31:15	440:23 441:23
		454:21 457:2,5 459:10 460:3	32:3,6,9,20	
173:4,14 174:4	312:2,15		46:7,22 48:19	442:9,17 448:1
175:21 176:4,9	315:15 316:6	462:5,16,21	49:5 57:18	450:19 452:11
177:4,18 179:5	316:22 317:18	463:6,14 464:5	77.5 57.10	452:19 455:10
<u>'</u>	<u> </u>		· •	

				Page 533
455 12 15 10	1.60.0.12		l, , , ,	260 5 200 1
455:13,15,18	169:9,12	defendants 3:15	deposition 1:13	268:5 280:1
456:7 457:10	487:19 518:16	154:6	6:6 10:2 11:8	283:21 307:14
458:21,24	Dcurry@nutt	defending 209:5	13:5,10 15:3	308:24 309:1
459:8,8,22	3:5	defense 238:19	37:16 40:22	309:12,15,19
460:2,7,12,22	deadliest 455:20	define 17:19	45:10,13 48:14	312:19,24
464:19 470:5	deadly 206:11	18:18 21:6	54:6,14,19,23	313:12,15,17
474:2 481:21	206:14	198:11 470:24	55:3,6 56:21	315:10 316:18
484:6,16,22,24	dealing 84:22	defined 7:20	58:18 59:8,16	319:21,24
485:11,13,17	deals 151:18	68:21 193:18	59:20 60:3,22	323:3,5 329:15
488:6 491:12	debulking 78:20	302:18 384:8	61:7 64:17,19	338:1 340:12
491:20,24	debunk 295:6	472:21 474:10	65:18 102:12	388:23 410:7
492:4,11,13,16	295:13 296:16	defining 48:16	102:18 111:11	410:15
492:16,17,18	decades 240:9	definitely	111:22 113:2,3	designated
493:19,21	339:2	129:13	113:6 114:17	37:10
498:14 502:5	December 6:20	definition 19:16	147:7,18 284:6	designations
508:20,23	142:15 143:12	80:4 97:8,13	461:1 496:14	210:13
509:15 511:11	220:12	97:23 98:13	516:4,7 517:6	designed 308:12
511:11,18	decide 144:5	177:7 184:7,15	517:8,9 518:3	308:15,16,17
512:8 513:8,15	236:14 264:2	195:10,15	518:13,17,19	316:2,12
513:15,18,21	278:19 509:8	197:22 198:1,2	depositions	319:19 338:13
513:21 514:4	decided 323:19	198:5 302:21	15:15 54:7	479:13,16
514:24	decision 508:19	347:19 370:12	111:5 119:19	designer 337:13
dataset 150:4	decisions 203:6	371:12 427:10	121:3 124:1	designs 241:7,12
232:2 233:15	288:19 289:4	definitions	deps@golkow	286:1 293:21
date 1:15 11:6	declarations	16:10 18:7	1:21	308:11 321:6
114:6 180:13	217:14	362:14	deputy 428:10	331:10
182:23 183:13	decrease 187:8	definitive	dermal 84:6	desirability
264:6,15	457:11	205:23	describe 115:13	252:1
266:12 379:3	decreased	degree 17:23	128:2 173:7	detailed 420:12
380:1,6 491:13	452:20 455:14	18:9,14 62:3	183:24 194:23	detect 317:11
503:10 518:9	459:8	116:1 164:19	214:19 392:17	318:1,21
520:16	decreases	179:18 272:20	396:6 402:17	325:20 328:21
dated 49:14	456:16	372:5	described 63:5	329:17 330:4
104:12 142:14	deduce 63:12	degrees 154:3	222:9 247:15	330:19 338:4
220:11 424:16	deem 152:5,15	Demonstrative	263:22	351:3 369:4
486:11 517:15	177:15	8:20	describing	detection 151:18
Daubert 6:11	deemed 97:12	denotes 296:9	133:24 267:14	335:3
110:15	219:6 303:24	depended 120:9	268:1 483:17	determine 218:8
Dawn 3:3 81:2	518:19	120:16	484:5,14	326:7,19 343:7
day 145:23	deeper 123:12	depends 112:20	description 5:13	351:18
169:11 250:20	deeply 123:6	242:23 353:20	6:5 7:5 8:5 9:5	determined 28:8
250:21,24	399:16	495:4	111:20 160:5	345:8
251:1,3,4	defendant 3:20	deponent 11:12	451:8	determining
340:7 342:16	4:6 12:21,24	41:2 520:2	design 170:13	20:16 218:13
352:18 431:11	14:1	deposed 14:22	170:21 196:9	218:16
473:17 520:20	defendant's	41:6	211:10 229:14	detracts 259:13
days 55:21	33:5	deposing 518:16	238:7 241:16	develop 136:1
	•	•	•	•

				Page 534
1 1 14616	201 10 456 2	D. 461.2	l	70 10 100 00
developed 46:16	321:13 456:3	Dineo 461:3	disclosures	79:18 122:23
79:21 118:14	461:23 479:17	direct 228:14	208:19	123:5,10
326:13 385:12	505:23 506:18	425:14 517:21	discounting	DISTRICT 1:1
386:3 423:2	differences	direction 10:5	277:2 278:10	1:2
developing	216:3	194:7 226:18	discovered	divide 204:19
17:17 65:10	different 35:10	226:23	306:21	Docket 9:7
115:14 174:23	41:16 42:13	directionality	discrepancies	doctor 12:2,8
326:15 342:4	45:24 46:5	370:21,23	409:2,9	13:13,19 14:12
development	64:4 74:7,8	372:1,2	discrepancy	15:8 22:1
20:2 21:10	83:4 94:8,18	directly 81:21	89:8	23:18 26:14
331:8 336:19	94:23 113:5	457:6	discrepant	31:9 32:2,12
338:16 351:5	128:17,18	director 427:3	407:11 408:20	37:9 39:16,21
374:16	139:10 149:19	428:10	410:8	40:3,9 41:10
develops 326:9	157:15 215:23	disagree 33:10	discuss 100:20	41:23 45:9,11
diabetic 36:11	219:7,14	77:1,3 80:19	170:13,21	46:1 52:6,22
diagnosed 25:2	227:16 231:9	81:19 86:3	172:19,24	59:13 60:12
25:12,22	231:10,11,12	89:11,16 99:18	173:6	61:21 63:17
391:12	233:13,20,21	138:21 156:7	discussed	64:11,19 66:11
diagnosis 14:14	233:22 240:5	156:10 169:19	172:22	67:21 69:23
79:11,13	241:7,12	179:12 183:21	discusses 135:23	70:9 72:3,4,17
256:20 353:3	247:18 248:5,7	207:3 218:3,24	147:6	73:12 74:5
diagram 281:5	248:7 261:22	221:5 258:2	discussion 81:13	75:4,22 76:7
281:10,12,22	261:23 266:20	261:3 264:17	172:11 293:12	76:22 79:4
282:4,8	282:2 285:24	297:15 306:9	374:6 481:15	80:9,19 82:2
diaper 29:24	289:14,15	335:6,11	508:24	83:15 86:20
diapered 29:18	298:21 305:14	394:13 395:14	disease 21:11	88:4 89:14
30:4 32:14,21	336:18 366:5	401:7,12,17	158:11,13	93:4,20 96:5,9
diapering	368:5,7,11,13	402:1,6,7	206:11 210:18	101:12 102:17
346:15 399:8	381:1 399:7	420:22 426:8	335:1,3 487:14	104:10 110:11
diaphragms	426:5 429:17	426:11 428:5	disingenuous	110:18 122:15
236:20	430:20 449:20	433:24 434:3	182:7	126:18 129:18
dichotomous	456:4 471:2	445:12 457:2	dismissal 201:11	131:12 133:8
477:4,5,5	483:18 506:1,3	464:5	dismissed	133:10 134:7
Diego 2:9	506:5 511:2	disagreed 86:10	210:14,19	135:14 136:2
differ 491:15	differentiate	88:13 98:12	dismissing	138:16 139:12
difference 42:15	122:10	306:12	210:23 212:22	141:3,8 144:11
59:18 79:2	differently	disagreeing 92:3	dismissive	144:19 146:13
158:16 183:18	158:24 283:24	426:24 428:8	132:23	147:10,22
185:6 201:20	388:21 492:6	428:13	disparate	150:16 155:17
201:21 202:15	difficulties	disagrees	296:17	158:20 159:9
217:14 222:8	78:24	168:14 328:6	disparity 364:20	159:22 160:10
222:10,11,15	difficulty 185:16	disappears	dispute 244:13	161:16 162:7
222:17 230:14	389:21	451:24	disrespected	163:8 165:5,20
230:20 254:22	dilemma 469:12	disclose 207:24	214:5	166:7,19
261:19 262:17	dilute 291:24	479:8	disrespectfully	167:10,21
279:24 280:2	diluted 290:22	disclosure	213:23	168:21 169:23
295:23 321:2	291:20	154:23	distinguish	170:6 171:5
-				

_				Page 535
172.0 170.11	406.19.407.2	110.4.12	J 200.14.22	110.5
173:9 179:11	406:18 407:3	110:4,12	dose 389:14,23 391:19 471:5	118:5
180:2,10 181:9	408:4 409:18	111:14 114:20		drawing 216:2
181:12,17	410:5,17 414:17 415:1,8	115:2 180:4	dose-response	drill 48:23
182:20 184:9	,	186:6 199:23	339:18 340:3	DRINKER 3:7
186:3 189:23	417:12,24	210:8 220:14	345:8 389:19	drive 2:4 3:8 4:3
190:5 191:14	418:7,16,24	224:5 255:14	390:5,7,7	232:19
192:8 197:21	419:2 420:9	271:10 273:23	470:6,14,22	driven 127:15
198:24 199:9	421:23 422:18	292:17 302:9	471:1,6 475:3	128:22
199:10,17	424:18 427:12	302:14 333:21	475:4 476:18	drop 236:6
200:5 201:2	429:10 430:6	344:3 363:14	476:23 477:7,8	495:16 513:4
203:8 206:7	430:21 431:2	377:15 403:21	477:12,14,17	DropBox 106:22
208:6 209:5	431:12 432:17	406:21 407:17	douching 8:14	dropped 311:5
210:7 211:12	434:12 437:18	407:22 424:10	405:8,11,15	495:10
212:11 215:14	439:17 441:18	424:15,18	download	dropping
216:20 218:19	442:22 443:18	425:4 429:2	106:20,21	326:14
220:18 222:20	446:10,13,15	463:11 468:2	107:2,4 503:10	drops 193:24
228:6 229:18	446:22 447:16	471:7,20	downloaded	drug 33:22 34:8
233:4 239:22	453:5 454:4	486:12 488:9	107:1	34:9,11 35:14
244:10,19	455:9 456:22	488:10 490:21	downloading	243:24 453:16
256:1,4,10	457:19 459:19	496:19 497:14	107:7	dry 36:13
257:4 258:20	464:16 465:10	503:1,6,11	Dr 11:13 54:10	DSAR 143:20
269:12 270:5	465:21 467:22	documented	54:20,23 55:3	dubbed 210:10
271:16 272:19	470:4 471:13	432:2	55:6 81:20	due 263:15
274:4 279:11	471:14,24	documents 10:8	110:17 111:11	317:16
280:20 293:3	472:19 474:2	38:10 103:3,9	124:20 125:4	duly 11:20 517:5
294:21 295:22	475:14 476:8	103:13 104:18	135:22 137:20	duplicates 150:3
302:15 303:15	477:16 479:1	105:17 107:11	140:12,15,17	duration 339:19
306:11 308:22	479:24 480:2	110:23 116:20	140:24 142:23	343:4 351:19
316:1 322:2	480:21 485:16	117:2 119:13	143:8,13,14	376:8,13 384:6
327:20 331:6	486:9,16,24	154:6,12,21	146:9 156:17	388:4 389:5
334:3,8 335:20	488:8 489:8,14	155:12	156:17 157:4	472:20 474:4
335:24 336:14	490:9 491:2,11	doing 15:20	168:3 170:7	474:10 475:20
340:16 341:19	494:18 495:19	47:10 66:7	185:16 207:24	476:2
344:1,9 348:18	497:1,19	81:2 92:19	209:16 263:16	dust 71:11 128:9
350:16 353:13	502:15 503:9	138:7 153:24	285:22 294:2	dusted 130:2,16
354:5,12	503:13 507:2	194:2,10 195:9	298:14 340:23	330:12 390:17
356:16 357:13	510:11 513:11	216:9 219:21	369:22 412:8	439:2
358:6,8 363:20	514:8 515:21	226:7 231:9	426:1,12,15,22	dusting 134:3
365:17 367:21	doctors 156:24	300:1 321:21	426:23 428:9	236:20 390:2
371:7 374:8	204:21 219:18	336:9 350:9	461:1,3 478:10	396:13
375:13 376:12	219:23 235:22	429:3 450:8	490:4 493:4	Dusts 5:22
377:3,20 378:4	294:22 372:7	461:8 464:2	495:11	
382:12 387:14	426:4	475:6,9 477:8	draft 6:19	E
393:2,15	document 1:8	483:10 499:19	142:13 143:12	E 5:2,10 6:2 7:2
397:11 401:15	40:12 45:5	502:11 504:22	144:3,17	8:2 9:2 519:1
404:1,11,14	64:13 71:4	504:23 513:7	220:11	e.g 84:3 259:5
405:8,19	102:13 104:21	518:8	drafting 111:21	earlier 80:24,24
100.0,17	102.13 107.21	210.0	wining 111.21	, ,
L				

## efficacy 34:15					Page 536
266:14 269:10 effort 122:23 efforts 203:5 efforts 203:5 efforts 203:5 a38:21 348:3 a38:21 348:3 a38:21 348:3 a35:22 effusion 468:17 doi:10.10.21 doi:10.21 d	00.40.004.0		l		
294:23 318:10 338:21 348:3 352:15 362:24 371:7,17 392:15 397:2 409:14 410:3 409:14 410:3 413:13 414:23 425:21 444:10 444:11 45:16 515:11 carly 30:10,18 31:18 32:15 59:10 487:9 21:15 397:2 246:01 326:2 247:16 247:16 248:19 30:10,18 31:18 32:15 59:10 487:9 31:18 32:15 59:10 487:9 498:10 EASTERN 1:2 EBM 7:19 302:18 ceho 260:9 EBM 7					
338:21 348:3 352:15 36:24 371:7,17 392:15 397:2 409:14 410:3 413:13 414:23 425:21 444:10 444:14 51:16 515:11 early 30:10,18 31:18 32:15 352:10 487:9 earned 114:6 easier 75:7 498:10 EASTERN 1:2 EBM 7:19 302:18 echo 260:9 349:3,9,19,23 302:18 echo 260:9 Ed 185:9,11 200:24 329:10 editorialize 280:21 Edst 85:12 280:21 Edst 85:12 editorialize 280:21 editorialize 280:21 editorialize editorialize 280:21 editorialize 290:24 editorialize 211:18:18 28:19 educational 23:5 editorialize 290:21 editorialize 211:18:18 28:19 educational 23:5 editorialize 230:21 editorialize 230:31 18:18:18:18:18:18:28:19 educational 23:5 editorialize 230:17 230:17 217:6 230:17 217:6 230:17 217:6 230:17 217:6 230:17 217:6 230:33:4 446:19 446:19 enrolled 383:16 enrolling 340:13 ential 43:21 entiale 44:1 entire 68:15 201:22 entitied 52:7 entitied 5			0 0		
352:15 362:24 3717.17 468:19 409:14 410:3 409:14 4410:3 443:13 414:23 443:13 414:23 444:11 451:16 515:11 early 30:10,18 31:18 32:15 251:15,18 352:10 487:9 earned 114:6 easier 75:7 498:10 EASTERN 1:2 Electronice 106:4 498:10 EASTERN 1:2 Electronice 106:4 498:10 EASTERN 1:2 EBM 7:19 302:18 echo 260:9 498:30 Ed 185:9,11 200:24 329:10 489:20 editorialize 280:21 Edwards 485: 489:20 editorialize 280:21 Elmo 73:7 Ellen 156:18 2290:4 489:10 ELLIS 4:2 183:12 280:13 239:16 estime 120:2 Engineering 446:19 446:19 446:19 446:19, 426:1,12,15,22 447:5,14 475:1,14 475:1,14 462:10 411:21:9 311:18 369:16 entidled 44:1 entire 68:15 20:22:0 eradicating 49:13 evaluation 94:3 40:20 evaluating 49:13 evaluation 94:3 40:10 evaluations 225:12 227:23 event 473:19 event 43:19 event 473:19 event					, ,
371:7,17 468:19 effusions 9:11 409:14 410:3 409:14 410:3 446:19 466:10 468:1,7 466:10 468:1,7 466:10 468:1,7 469:11 egregious etither 127:10 144:16 112:19 198:4 278:9 214:16 202:20 214:16 202:20 202:20 214:16 202:20 202:			· · · · · · · · · · · · · · · · · · ·		,
392:15 397:2 409:14 410:3 413:13 414:23 425:21 444:10 244:11 451:16 2515:11 244:13 13:15 215:15,18 216:10 487:9 286:10 326:2 214:16 235:10 487:9 280:10 284:10 498:10 284:10 498:10 284:18 20:18 286:10 326:2 288:10 329:18 286:10 326:2 288:10 329:18 286:10 326:2 288:10 329:18 286:10 326:2 286:10 326:2 286:10 326:2 286:10 326:2 286:10 326:2 286:10 326:2 286:10 326:2 286:10 326:2 286:10 326:2 286:10 326:2 286:10 326:2 286:10 326:2 286:10 326:2 287:10 487:9 280:21 280:21 280:21 280:21 280:21 280:21 280:21 280:21 280:21 280:21 280:21 280:21 280:21 280:21 280:21 280:21 280:21 281:18 281:9 292:4 280:21 280:21 280:21 280:21 280:21 280:21 281:18 281:9 292:4 280:21 281:18 281:9 292:4 280:21 281:18 281:9 296:4 399:16 292:4 56:22 115:17 276:488:8 295:22 399:15 288:20 399:17 164:16 288:8 260:2 492:13 369:22 399:16 288:20 399:17 290:7,14 314:4 314:9 318:16 318:22,24 314:9 318:16 318:22,24 314:9 318:16 318:22,24 314:9 318:16 318:22,24 314:9 318:16 318:22,24 314:9 318:16 318:22,24 314:9 318:16 318:22,24 314:9 318:16 318:22,24 314:9 318:16 318:22,24 314:03 311:18 369:16 246:10 20:22:00 20:20 20:20 20:20 20:20 20:20 20:20 477:6 20:112 224:18 217:11 200:22-13 218:12 50:15 224:15.16 221:15:16 222:15:16 222:15:16 222:13 20:11 204:24 20:11 204:24 201:1			C	1 1	
409:14 410:3	,			_	
413:13 414:23 469:11 egregious entail 43:21 398:6 equally 204:1 443:10 143:16 112:19 311:18 369:16 equivocally 202:20 ethnic 248:9 entitled 54:1 232:10 487:9 368:22 440:24 entitled 52:7 earned 114:6 escire 75:7 electronic 106:4 498:10 electronically entitled 52:7 entitly 262:21 entity 262:21 error 355:7,15 errors 203:4 event 473:19					· ·
425:21 444:10 444:11 451:16 515:11 early 30:10,18 31:18 32:15 egregious 144:16 198:4 278:9 286:10 326:2 214:16 entire 68:15 2214:16 entire 68:15 202:20 eradicating 217:11 entire 68:15 202:20 eradicating 217:11 ergo 300:4 err 506:20 errata 518:6,9 err 506:20 errata 518:6,9 error 355:7,15 errors 203:4 event 443:10 event 444:10 entire 48:15 224:18,16 224:18,11 226:12,12,16 224:18,11 226:13 235:13 26:22 235:12,17 249:14,14 226:14 226:14,14 226:14 226:14,14 226:14,14 226:14,14 226:14,14 226:14,14 226:14,14 226		· · · · · · · · · · · · · · · · · · ·		_	· ·
444:11 451:16 515:11 144:16 either 127:10 198:4 278:9 286:10 326:2 214:16 112:19 entiled 44:1 equivocally 202:20 evaluating 491:3 28:15,5,18 28:10 326:2 214:16 entiled 58:15 25:7 28:10 487:9 26:10 487:9 26:10 368:22 440:24 28:10 20:21 20:20 evaluating 491:3 217:11 evaluation 94:3 error 30:24 22:18 entiled 52:7 ergo 300:4 err 506:20 errata 518:6,9 218 electronic 106:4 electronically 200:24 329:10 106:24 292:4 56:22 115:17 200:24 329:10 489:20 editorialize 280:21 Elmo 73:7 28ds 185:12 educational 23:5 effect 15:10 20:17 217:6 290:7,14 314:4 185:21 205:17, 205:17 217:6 290:7,14 314:4 185:2,24 3330:20 1318:2,24 3330:20 2339:17 367:6 442:13 436:9 452:13 509:3 510:9 effects 22:3 20:11 204:24 201:14 212:23 201:12 249:5 249:18 2161 204:24 201:14 212:23 endometriois 112:19 entiled 44:1 equivocally ethnicities 240:5 evaluation 49:13 20:220 evaluating 491:3 20:220 evaluation 94:3 error 506:20 errata 518:6,9 error 30:4 error 35:7,15 evaluations error 35:7,15 error 35:7,14 error 35:7,14 error 35:7,14 error 35:7,14 error 35:7,13 error 35:7,14 error 35:7,14 error 35:7,14 error 35:7,14 error 35:7,14 error 35:7,15 error 35:7,15 error 35:7,15 error 35:7,15					· ·
515:11 either 127:10 entailed 44:1 equivocally ethnicities 240:5 31:18 32:15 198:4 278:9 202:20 evaluating 35:10 487:9 368:22 440:24 entities 3:15 eradicating 491:3 352:10 487:9 368:22 440:24 entities 3:15 eradicating 217:11 evaluation 94:3 498:10 electronic 106:4 electronically 106:15 106:15 entity 262:21 entity 262:21 224:15,16 EASTERN 1:2 106:24 elevated 348:5 entity 262:21 520:12 errors 355:7,15 event 473:19 echo 260:9 349:3,91,9,23 353:17 487:11 epidemiologic 226:13 event 432:12,19 editorialize 292:4 56:22 115:17 ESQ 2:3,8,13,13 3:3,8,12,17 4:3 177:23 educational 23:5 embedded 123:7 164:16 288:8 essence 59:19 established 182:24 183:14 185:21 205:1,5 205:17 217:6 469:16 57:10 165:6 epidemiological 87:20 139:21 182:8 217:22 175:19 176:3 182:8 217:22 226:22 264:14		0 0			
early 30:10,18 198:4 278:9 entire 68:15 202:20 evaluating 31:18 32:15 286:10 326:2 214:16 eradicating 491:3 352:10 487:9 368:22 440:24 entitled 52:7 eradicating 217:11 evaluation 94:3 498:10 506:2 electronically entitled 52:7 err 506:20 477:6 ESMT:19 105:15 106:15 entry 444:10 520:12 err 506:20 evaluation 94:3 302:18 elevated 348:5 entity 262:21 518:12,15 222:15,15 225:12 227:23 echo 260:9 349:3,9,19,23 353:17 487:11 event 473:19 event 473:19 489:20 292:4 56:22 115:17 487:11 especially 226:13 415:9,12 416:6 48 18 28:12 181:18 281:9 359:12 239:15 485:10 essence 59:19 everybody 23:5 Elmo 73:7 164:16 288:8 essence 59:19 established 87:20 139:21 evidence 19:13 485:12 205:1,5 205:17 217:6 enbedded 123:7 260:24 273:16 270:11					
31:18 32:15 151:5,18 329:13 350:12 214:16 entities 3:15 25:10 487:9 368:22 440:24 2506:2 214:16 entities 3:15 25:10 487:9 264:24 240:24 2506:2 219:14 20:218 20:218 20:24 29:14 20:24 329:10 20					
151:5,18 352:10 487:9 262:10 487:9 262:10 487:9 262:10 487:9 262:11 262:11 262:12 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:12 27:13 262:13 26					<u> </u>
352:10 487:9 earned 114:6 368:22 440:24 506:2 entitled 52:7 139:8 155:18 ergo 300:4 err 506:20 161:21 224:18 477:6 498:10 EASTERN 1:2 EBM 7:19 302:18 echo 260:9 106:24 secho 260:9 349:3,9,19,23 353:17 353:17 secho 260:20 106:24 septimental secho 260:9 61:4 88:8 89:5 septimental secho 260:9 489:20 septimental secho 260:9 202:4 septimental secho 260:9 202:4 septimental secho 260:9 489:20 septimental secho 260:9 202:4 septimental secho 260:9 489:10 septimental secho 260:9 56:22 115:17 septimental secho 260:9 487:11 septimental septimental secho 260:9 487:11 septimental septimental secho 260:9 487:11 septimental secho 260:9 487:11 septimental secho 260:11 secho 260:12 secho 260:9 487:11 septimental secho 260:12 secho 260:4 487:11 septimental secho 260:12 secho 260:12 secho 20:4 secho 260:12 secho 20:4 secho 260:12 secho 260:20 secho 260:13 secho 260:12 secho 260:20 secho 260:4 secho 260:12 secho 260:20 secho 260:12 secho 260:20			_		
earned 114:6 easier 75:7 506:2 electronic 106:4 498:10 139:8 155:18 entity 262:21 err 506:20 errata 518:6,9 evaluations 477:6 evaluations EASTERN 1:2 EBM 7:19 302:18 echo 260:9 106:24 elevated 348:5 echo 260:9 349:3,9,19,23 353:17 EOC 347:15 487:11 epidemiologic alvational 220:24 487:11 epidemiologic everybody everynever especially 415:9,12 416:6 488:8 essence 59:19 everybody 407:24 everybody everylowdy Edta 185:9,1 2educational 23:5 effect 15:10 a18:22 4 183:14 185:21 205:1,5 205:1,7 217:6 290:7,14 314:4 314:9 318:16 318:22,24 133:14 enterpoly and sign and si	/			· ·	
easier 75:7 498:10 electronic 106:4 electronically 191:4 entity 262:21 entry 444:10 errata 518:6,9 518:12,15 evaluations 224:15,16 EBM 7:19 302:18 elevated 348:5 349:3,9,19,23 353:17 61:4 88:8 89:5 61:4 88:8 89:5 349:3,9,19,23 353:17 errors 203:4 487:11 event 473:19 event 473:19 event 473:19 event 473:19 event 473:19 event 473:19 event 473:19 event 473:19 every 640:24 event 473:19 event 473:19 event 473:19 every 640:24 event 473:19 event 473:19 every 640:24 event 473:19 every 640:24 event 473:19 event 473:19 every 640:24 event 473:19 every 640:24 every 640:24 <td></td> <td></td> <td></td> <td></td> <td></td>					
498:10 electronically entity 262:21 518:12,15 224:15,16 EASTERN 1:2 105:15 106:15 entry 444:10 225:12 227:23 EBM 7:19 106:24 entry 444:10 225:12 227:23 302:18 elevated 348:5 61:4 88:8 89:5 errors 203:4 event 473:19 event 473:19 event 473:19 Ed 185:9,11 353:17 Ellen 156:18 EOC 347:15 407:24 ever/never ever/never editorialize 292:4 56:22 115:17 ESQ 2:3,8,13,13 3:3,8,12,17 4:3 everybody 280:21 Elmo 73:7 164:16 288:8 essence 59:19 everyday 389:16 educational 463:9 464:8 embedded 123:7 399:16 87:20 139:21 evidence 19:13 185:21 205:1,5 469:16 employed 160:2 262:4 273:16 288:20 359:17 379:6 128:4 158:12 290:7,14 314:4 469:16 369:16 epidemiologic 196:16,17,21 182:8 217:22 339:17 367:6 420:19 421:3 503:14 endeavor 138:22,24 349:14,24 349:10,6;8					
EASTERN 1:2 105:15 106:15 entry 444:10 environmental 520:12 error 355:7,15 event 473:19 event 473:10					
EBM 7:19 106:24 environmental 6l:4 88:8 89:5 error 355:7,15 event 473:19 302:18 elevated 348:5 349:3,9,19,23 353:17 487:11 407:24 ever/never Ed 185:9,11 353:17 487:11 epidemiologic 226:13 416:10 417:10 ever/never 489:20 292:4 56:22 115:17 ESQ 2:3,8,13,13 177:23 everybody 280:21 Elmo 73:7 164:16 288:8 essence 59:19 everyday 389:16 Eds 185:12 181:18 281:9 463:9 464:8 485:10 established 89:17 evidence 19:13 23:5 embedded 123:7 399:16 57:10 165:6 87:20 139:21 218:18 281:2 226:24 273:16 87:20 139:21 218:4 158:12 49:10 63:12 128:4 158:12 128:8 217:22 175:19 176:3 182:8 217:22 175:19 176:3 182:8 217:22 175:19 176:3 182:8 217:22 175:19 176:3 182:8 217:22 182:8 217:22 175:19 176:3 182:8 217:22 182:8 217:22 285:11 280:12 285:22 49:10 63:12 182:8 217:22 175:19 176:3 182:8 217:22				,	-
302:18 echo 260:9 elevated 348:5 at 349:3,9,19,23 61:4 88:8 89:5 at 85:12 errors 203:4 at 407:24 especially events 432:12,19 ever/never Ed 185:9,11 200:24 329:10 489:20 Ellen 156:18 at 292:4 56:22 115:17 at 5:17 at 9:7 226:13 at 6:10 at 17:10 everybody 416:10 417:10 everybody editorialize 280:21 Elmo 73:7 at 6ucational 23:5 effect 15:10 182:24 183:14 185:21 205:1,5 205:17 217:6 290:7,14 314:4 314:9 318:16 318:22,24 329:15 at 399:16 employed 160:2 200:7,14 314:4 314:9 318:16 318:22,24 329:13 at 39:17 ad 40:14 at 318:29 endeavor 420:19 421:3 436:9 452:13 509:3 510:9 effects 22:3 201:11 204:24 201:14 212:23 at 201:11 204:24 201:14 212:23 endometrioid elevated 348:5 at 60:24 88:8 at 89:5 ever/day 32:12,19 ever/never 415:9,12 416:6 416:10 417:10 everybody 177:23 everyday 389:16 essence 59:19 everyday 389:16 everyday					
echo 260:9 349:3,9,19,23 EOC 347:15 407:24 especially ever/never Ed 185:9,11 200:24 329:10 489:20 292:4 56:22 115:17 226:13 416:10 417:10 editorialize 292:4 56:22 115:17 ESQ 2:3,8,13,13 3:3,8,12,17 4:3 everybody 280:21 Elmo 73:7 164:16 288:8 essence 59:19 everyday 389:16 Eds 185:12 181:18 281:9 359:22 392:15 established 87:20 139:21 evidence 19:13 23:5 embedded 123:7 59:10 165:6 379:6 49:10 63:12 evidence 19:13 185:21 205:1,5 161:5 173:1 288:20 359:17 196:16,17,21 182:8 217:22 290:7,14 314:4 469:16 360:2 492:13 197:2,2,13,17 255:11 280:12 290:7,14 314:4 103:11 496:14 358:22 347:14,24 283:12 302:24 339:17 367:6 420:19 421:3 115:9 164:23 286:22 37:4 474:17 283:12 302:24 436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 421:8 422:8,12 430:11 204:24 409				· ·	
Ed 185:9,11 353:17 487:11 especially 415:9,12 416:6 200:24 329:10 Ellen 156:18 292:4 56:22 115:17 ESQ 2:3,8,13,13 416:10 417:10 editorialize ELLIS 4:2 137:7 149:7 3:3,8,12,17 4:3 177:23 280:21 Elmo 73:7 164:16 288:8 essence 59:19 everybody Eds 185:12 181:18 281:9 459:22 392:15 established 389:17 educational 23:5 embedded 123:7 6pidemiological 335:1 365:22 379:6 128:4 158:12 182:24 183:14 employed 160:2 262:4 273:16 estimate 193:22 175:19 176:3 185:21 205:1,5 161:5 173:1 288:20 359:17 196:16,17,21 182:8 217:22 290:7,14 314:4 318:16 339:14 employee 301:2 endeavor 197:18 203:24 281:6,11,14 318:22,24 333:17 367:6 endeavored 115:9 164:23 286:22 371:4 474:17 283:12 302:24 420:19 421:3 115:9 164:23 286:22 371:4 474:17 395:21 398:10 436:9 452:13					
200:24 329:10 Ellen 156:18 epidemiologic 226:13 416:10 417:10 489:20 292:4 56:22 115:17 ESQ 2:3,8,13,13 416:10 417:10 280:21 Elmo 73:7 164:16 288:8 essence 59:19 everybody Eds 185:12 Elmo 73:7 164:16 288:8 essence 59:19 everyday 389:16 23:5 embedded 123:7 399:16 57:10 165:6 379:6 228:20 139:21 evidence 19:13 182:24 183:14 185:21 205:1,5 161:5 173:1 288:20 359:17 196:16,17,21 175:19 176:3 290:7,14 314:4 499:16 360:2 492:13 197:2,2,13,17 255:11 280:12 290:7,14 314:4 employee 301:2 endeavor epidemiologic 197:12,2,13,17 255:11 280:12 318:22,24 318:16 358:22 347:14,24 283:12 302:24 329:17 367:6 endeavored 7:14 154:3 349:10,16,18 305:6,6 315:3 436:9 452:13 ended 78:22 287:2,4,7 392:9 estimated 336:4 412:8 422:8,12 420:14 212:23 endometrioid epithelial 7					
489:20 292:4 56:22 115:17 ESQ 2:3,8,13,13 everybody 280:21 Elmo 73:7 164:16 288:8 3:3,8,12,17 4:3 177:23 Eds 185:12 181:18 281:9 359:22 392:15 essence 59:19 everyday 389:16 educational 463:9 464:8 485:10 87:20 139:21 evidence 19:13 23:5 embedded 123:7 399:16 57:10 165:6 379:6 128:4 158:12 182:24 183:14 161:5 173:1 288:20 359:17 196:16,17,21 182:8 217:22 205:17 217:6 469:16 360:2 492:13 197:2,2,13,17 255:11 280:12 290:7,14 314:4 employee 301:2 492:16 197:18 203:24 281:6,11,14 318:22,24 103:11 496:14 358:22 347:14,24 282:14,24 339:17 367:6 endeavor 7:14 154:3 349:19,23 336:22 394:21 420:19 421:3 115:9 164:23 286:22 371:4 474:17 395:21 398:10 436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 ended 78:22 <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td>,</td>	· · · · · · · · · · · · · · · · · · ·				,
editorialize ELLIS 4:2 137:7 149:7 3:3,8,12,17 4:3 177:23 280:21 Elmo 73:7 164:16 288:8 essence 59:19 everyday 389:16 Eds 185:12 181:18 281:9 463:9 464:8 485:10 87:20 139:21 evidence 19:13 23:5 embedded 123:7 399:16 57:10 165:6 379:6 128:4 158:12 182:24 183:14 employed 160:2 262:4 273:16 estimate 193:22 175:19 176:3 185:21 205:1,5 161:5 173:1 288:20 359:17 196:16,17,21 182:8 217:22 290:7,14 314:4 employee 301:2 endeavor 197:18 203:24 281:6,11,14 318:22,24 103:11 496:14 358:22 347:14,24 282:14,24 339:17 367:6 endeavored 7:14 154:3 349:19,23 336:22 394:21 420:19 421:3 115:9 164:23 286:22 371:4 474:17 395:21 398:10 436:9 452:13 ended 78:22 287:2,4,7 estimates 422:16 428:20 509:3 510:9 endometrioid epithelial 7:6,22 187:20 354:2 429:4 430:8					
280:21 Elmo 73:7 164:16 288:8 essence 59:19 everyday 389:16 Eds 185:12 181:18 281:9 359:22 392:15 established 389:17 educational 463:9 464:8 485:10 87:20 139:21 evidence 19:13 23:5 embedded 123:7 59:16 165:6 379:6 128:4 158:12 182:24 183:14 employed 160:2 262:4 273:16 estimate 193:22 175:19 176:3 185:21 205:1,5 161:5 173:1 288:20 359:17 196:16,17,21 182:8 217:22 290:7,14 314:4 employee 301:2 492:16 197:18 203:24 281:6,11,14 318:22,24 103:11 496:14 358:22 347:14,24 282:14,24 318:22,24 503:14 epidemiology 349:10,16,18 305:6,6 315:3 339:17 367:6 endeavored 7:14 154:3 349:19,23 336:22 394:21 436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 Endnote 229:18 endometrioid 89 9:15 21:17 estimating 422:16 428:20 201:11 204:24					
Eds 185:12 181:18 281:9 359:22 392:15 established 389:17 educational 463:9 464:8 485:10 87:20 139:21 evidence 19:13 23:5 embedded 123:7 epidemiological 335:1 365:22 49:10 63:12 effect 15:10 399:16 57:10 165:6 379:6 128:4 158:12 182:24 183:14 employed 160:2 262:4 273:16 estimate 193:22 175:19 176:3 205:17 217:6 469:16 360:2 492:13 196:16,17,21 182:8 217:22 290:7,14 314:4 employee 301:2 epidemiologic 197:18 203:24 281:6,11,14 318:22,24 103:11 496:14 358:22 347:14,24 283:12 302:24 324:3 330:20 503:14 epidemiology 349:10,16,18 305:6,6 315:3 339:17 367:6 endeavored 7:14 154:3 349:19,23 336:22 394:21 436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 endometrioid epithelial 7:6,22 187:20 354:2 429:4 430:8 201:11 204:24 409:5	editorialize	ELLIS 4:2	137:7 149:7	3:3,8,12,17 4:3	
educational 23:5463:9 464:8 embedded 123:7485:10 epidemiological87:20 139:21 335:1 365:22evidence 19:13 49:10 63:12effect 15:10399:1657:10 165:6379:6128:4 158:12182:24 183:14 185:21 205:1,5employed 160:2 161:5 173:1262:4 273:16 288:20 359:17estimate 193:22 196:16,17,21175:19 176:3290:7,14 314:4 314:9 318:16 318:22,24employee 301:2 205:11 496:14492:16 epidemiologic197:18 203:24 226:22 264:14281:6,11,14 226:22 264:14339:17 367:6 420:19 421:3endeavored 115:9358:22 epidemiology 7:14 154:3349:10,16,18 349:10,16,18305:6,6 315:3 371:4 474:17436:9 452:13 509:3 510:9ended 78:22 endometrioid 409:5287:2,4,7 392:9estimated 336:4 estimated estimates estimates412:8 422:8,12 422:16 428:20 429:4 430:8 432:6,6 436:20201:11 204:24 210:14 212:23409:5 endometriosis89 9:15 21:17 249:18 276:15estimating 337:1437:6 448:7,12					
23:5 embedded 123:7 epidemiological 335:1 365:22 49:10 63:12 182:24 183:14 185:21 205:1,5 262:4 273:16 262:4 273:16 estimate 193:22 175:19 176:3 205:17 217:6 469:16 288:20 359:17 196:16,17,21 182:8 217:22 290:7,14 314:4 290:7,14 314:4 469:16 492:16 197:18 203:24 281:6,11,14 318:22,24 103:11 496:14 358:22 347:14,24 283:12 302:24 339:17 367:6 endeavored 7:14 154:3 349:10,16,18 305:6,6 315:3 436:9 452:13 15:9 164:23 286:22 371:4 474:17 395:21 398:10 436:9 452:13 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 Endnote 229:18 392:9 estimated 336:4 412:8 422:8,12 201:11 204:24 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 endometriois 249:18 276:15 337:1 437:6 448:7,12					
effect 15:10 399:16 57:10 165:6 379:6 128:4 158:12 182:24 183:14 employed 160:2 262:4 273:16 196:16,17,21 175:19 176:3 205:17 217:6 469:16 360:2 492:13 197:2,2,13,17 255:11 280:12 290:7,14 314:4 employee 301:2 employee 301:2 492:16 197:18 203:24 281:6,11,14 318:22,24 103:11 496:14 358:22 347:14,24 283:12 302:24 339:17 367:6 endeavored 7:14 154:3 349:19,23 336:22 394:21 436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 endometrioid 409:5 epithelial 7:6,22 187:20 354:2 429:4 430:8 210:14 212:23 endometriosis 249:18 276:15 337:1 437:6 448:7,12	educational	463:9 464:8	485:10		evidence 19:13
182:24 183:14 employed 160:2 262:4 273:16 estimate 193:22 175:19 176:3 185:21 205:1,5 161:5 173:1 288:20 359:17 196:16,17,21 182:8 217:22 290:7,14 314:4 469:16 360:2 492:13 197:2,2,13,17 255:11 280:12 290:7,14 318:16 employee 301:2 492:16 197:18 203:24 281:6,11,14 318:22,24 103:11 496:14 358:22 347:14,24 283:12 302:24 339:17 367:6 endeavored 7:14 154:3 349:10,16,18 305:6,6 315:3 436:9 452:13 115:9 164:23 286:22 371:4 474:17 395:21 398:10 effects 22:3 endometrioid epithelial 7:6,22 estimates 422:16 428:20 201:11 204:24 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 endometriois 249:18 276:15 337:1 437:6 448:7,12		embedded 123:7	epidemiological	335:1 365:22	
185:21 205:1,5 161:5 173:1 288:20 359:17 196:16,17,21 182:8 217:22 205:17 217:6 469:16 360:2 492:13 197:2,2,13,17 255:11 280:12 290:7,14 314:4 employee 301:2 492:16 197:18 203:24 281:6,11,14 318:22,24 103:11 496:14 358:22 347:14,24 283:12 302:24 339:17 367:6 endeavored 7:14 154:3 349:10,16,18 305:6,6 315:3 339:17 367:6 115:9 164:23 286:22 371:4 474:17 395:21 398:10 436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 endometrioid epithelial 7:6,22 187:20 354:2 429:4 430:8 201:11 204:24 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 endometriosis 249:18 276:15 337:1 437:6 448:7,12	effect 15:10	399:16	57:10 165:6	379:6	128:4 158:12
205:17 217:6 469:16 360:2 492:13 197:2,2,13,17 255:11 280:12 290:7,14 314:4 employee 301:2 492:16 197:18 203:24 281:6,11,14 318:22,24 103:11 496:14 226:22 264:14 282:14,24 324:3 330:20 503:14 endeavored 358:22 347:14,24 283:12 302:24 420:19 421:3 115:9 endeavored 7:14 154:3 349:19,23 336:22 394:21 436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 endometrioid 409:5 epithelial 7:6,22 187:20 354:2 429:4 430:8 201:11 204:24 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 endometriosis 249:18 276:15 337:1 437:6 448:7,12	182:24 183:14		262:4 273:16	estimate 193:22	175:19 176:3
290:7,14 314:4 employee 301:2 492:16 197:18 203:24 281:6,11,14 314:9 318:16 103:11 496:14 226:22 264:14 282:14,24 324:3 330:20 503:14 epidemiology 349:10,16,18 305:6,6 315:3 339:17 367:6 endeavored 7:14 154:3 349:19,23 336:22 394:21 420:19 421:3 115:9 164:23 286:22 371:4 474:17 395:21 398:10 436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 endometrioid 392:9 estimates 422:16 428:20 e01:11 204:24 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 endometriosis 249:18 276:15 337:1 437:6 448:7,12	· · · · · · · · · · · · · · · · · · ·	161:5 173:1	288:20 359:17	· · ·	
314:9 318:16 endeavor 103:11 496:14 226:22 264:14 282:14,24 318:22,24 103:11 496:14 358:22 347:14,24 283:12 302:24 324:3 330:20 503:14 epidemiology 349:10,16,18 305:6,6 315:3 339:17 367:6 endeavored 7:14 154:3 349:19,23 336:22 394:21 420:19 421:3 115:9 164:23 286:22 371:4 474:17 395:21 398:10 436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 Endnote 229:18 endometrioid epithelial 7:6,22 187:20 354:2 429:4 430:8 201:11 204:24 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 endometriosis 249:18 276:15 337:1 437:6 448:7,12	205:17 217:6	469:16	360:2 492:13	197:2,2,13,17	255:11 280:12
318:22,24 103:11 496:14 358:22 347:14,24 283:12 302:24 324:3 330:20 339:17 367:6 349:10,16,18 305:6,6 315:3 420:19 421:3 115:9 164:23 286:22 371:4 474:17 395:21 398:10 436:9 452:13 287:2,4,7 283:12 302:24 509:3 510:9 287:2,4,7 287:2,4,7 283:12 302:24 209:3 510:9 287:2,4,7 28	290:7,14 314:4			197:18 203:24	281:6,11,14
324:3 330:20 503:14 epidemiology 349:10,16,18 305:6,6 315:3 339:17 367:6 420:19 421:3 115:9 164:23 286:22 371:4 474:17 395:21 398:10 436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 endometrioid 392:9 422:16 428:20 effects 22:3 endometrioid 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 endometriosis 249:18 276:15 337:1 437:6 448:7,12	314:9 318:16		epidemiologic		282:14,24
339:17 367:6 endeavored 7:14 154:3 349:19,23 336:22 394:21 420:19 421:3 115:9 164:23 286:22 371:4 474:17 395:21 398:10 436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 endometrioid apithelial 7:6,22 187:20 354:2 429:4 430:8 201:11 204:24 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 249:18 276:15 337:1 437:6 448:7,12	318:22,24	103:11 496:14		347:14,24	
420:19 421:3 115:9 164:23 286:22 371:4 474:17 395:21 398:10 436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 endometrioid endometrioid epithelial 7:6,22 187:20 354:2 429:4 430:8 201:11 204:24 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 249:18 276:15 337:1 437:6 448:7,12	324:3 330:20	503:14	epidemiology	349:10,16,18	305:6,6 315:3
436:9 452:13 ended 78:22 287:2,4,7 estimated 336:4 412:8 422:8,12 509:3 510:9 Endnote 229:18 392:9 estimates 422:16 428:20 effects 22:3 endometrioid epithelial 7:6,22 187:20 354:2 429:4 430:8 201:11 204:24 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 endometriosis 249:18 276:15 337:1 437:6 448:7,12	339:17 367:6	endeavored	7:14 154:3	349:19,23	336:22 394:21
509:3 510:9 Endnote 229:18 392:9 estimates 422:16 428:20 effects 22:3 endometrioid epithelial 7:6,22 187:20 354:2 429:4 430:8 201:11 204:24 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 249:18 276:15 337:1 437:6 448:7,12	420:19 421:3	115:9	164:23 286:22	371:4 474:17	395:21 398:10
effects 22:3 endometrioid epithelial 7:6,22 187:20 354:2 429:4 430:8 201:11 204:24 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 249:18 276:15 337:1 437:6 448:7,12	436:9 452:13		287:2,4,7	estimated 336:4	412:8 422:8,12
201:11 204:24 409:5 8:9 9:15 21:17 estimating 432:6,6 436:20 210:14 212:23 endometriosis 249:18 276:15 337:1 437:6 448:7,12	509:3 510:9	Endnote 229:18	392:9	estimates	422:16 428:20
210:14 212:23 endometriosis 249:18 276:15 337:1 437:6 448:7,12	effects 22:3	endometrioid	epithelial 7:6,22	187:20 354:2	429:4 430:8
	201:11 204:24	409:5	8:9 9:15 21:17	estimating	432:6,6 436:20
450:22 454:12 487:13 280:16 311:23 estimation 449:2,15	210:14 212:23	endometriosis	249:18 276:15	337:1	437:6 448:7,12
	450:22 454:12	487:13	280:16 311:23	estimation	449:2,15
		<u> </u>	<u> </u>	<u> </u>	<u> </u>

				Page 537
450 21 451 2	400.0	502.2.6	110 10 120 12	105 20 21 6 0
450:21 451:3	498:8	503:2,6	119:18 120:12	185:20 216:9
451:18 453:24	examples	exhibits 54:7,11	121:3,7 123:15	252:22 253:12
458:20 479:21	205:16 267:14	54:15,20 55:5	123:21 124:1,5	257:15 258:7
481:12 482:5	314:20,21	55:12 119:18	124:18 125:2	263:11,13
484:13 505:20	455:3 457:22	142:24 143:9	126:19 127:4	272:9,21 273:9
508:3,10 509:3	457:24 458:1	143:14 146:9	127:18 134:8	297:23 460:9
510:23 511:7	exception 192:9	147:3,10,14,15	135:21 139:15	460:11 461:20
511:23 512:12	Excerpt 5:14,16	147:19	139:20 140:15	462:22 511:21
Evidence- 7:19	5:19	exist 41:17	140:17 146:17	explained 78:6
evidence-based	excesses 93:12	130:4,19	147:1 148:2	98:12 314:2
281:15 283:10	excuse 96:14	492:14	150:22 155:14	356:23 440:1
302:17,22	190:5 327:6	existing 43:13	157:1,7 162:17	explaining
303:5,17,19	463:6,7,15	exists 425:13	180:3 184:23	199:2 267:16
305:2	Excused 516:6	491:13 492:12	186:4,11	314:24 353:10
exacerbated	exhaustive	expand 77:16	187:17 208:1	460:21
335:2	492:1	expect 185:22	208:13,16	explains 196:7
exact 88:22	exhibit 39:19	225:21,24	242:20 243:5	explanation
91:17 266:12	40:7,13,21	226:8 227:15	271:8 273:4	167:4 254:21
285:20 481:15	45:6,10,11,19	259:21 260:14	274:4 276:19	263:19 331:2
484:7	55:10 64:12,14	339:15 410:13	281:2 292:5	399:4,6 480:11
exactly 50:16	71:5,9 72:20	expelling 422:8	303:7 308:23	explanations
51:22 86:9	102:12,14,18	experience	309:4 315:6	252:24 400:12
117:11 129:23	110:5,8 114:21	78:20 178:13	352:2 353:8	explicitly 90:6
141:22 168:16	115:1 121:8	341:12,15	355:5 356:17	exposed 17:22
218:14 244:9	146:12,20	experiment	375:5 405:23	254:17 341:7
255:4 280:3	150:21 180:5,9	280:1,7,9,13	407:4 411:16	342:18 346:14
349:15 356:4	186:5,7 199:24	433:22	502:16,22	368:20 384:7
395:4 406:16	200:4 220:12	experimental	515:3,8,13	exposure 7:6
440:2 460:10	220:15 224:4,6	145:6	expertise 302:24	20:1 21:9
475:17	255:15,19	experiments	504:8	26:15,20 27:7
EXAMINATI	258:22 269:20	22:2	experts 127:19	27:19 28:7
11:23	271:11 273:24	expert 6:10	129:20 130:15	60:14 61:13,17
examine 411:5	292:18,22	12:20 37:10	132:10 140:5	61:22 62:15,22
examined 11:21	302:10,13	38:15 39:11	149:5 156:11	63:4,13,18
80:6 93:15	333:22 334:1	49:13,21 50:11	156:12 157:4,6	65:1,5 67:7,23
437:15	344:4,8 363:15	50:19 51:5,6	157:9 158:23	68:1,18 70:2
example 19:13	363:18 377:12	51:16 52:24	198:19 210:22	70:11,18 71:1
36:10 132:4	377:16,22	53:19 54:5	214:21 215:2	72:13 74:16
135:22 157:23	403:20,22	57:13 58:13,22	292:3,14	80:5 82:19
205:12,13	406:22 407:2	59:5 86:20	experts' 50:7,9	83:16,19,21,22
207:16 226:7	407:18,22	87:3 104:11	52:1 53:12	84:4,8,12
248:10,16	424:11,15	105:6,18	58:13 172:14	87:19,23 88:9
264:20 281:24	428:16 468:3	107:12 108:10	173:3	95:14 149:9
290:4,18,21	468:10 471:8	110:14,20	expires 520:21	220:24 224:20
291:18 381:11	471:12 486:13	111:6,16,21	explain 137:15	237:23 252:2
395:18 409:4	488:9,11	112:2 115:1	137:24 161:12	252:10 256:19
425:20 494:14	496:20,24	118:3,5 119:3	167:1 168:15	259:5 280:5
	<u> </u>	<u> </u>	<u> </u>	

_				Page 538
210.1.21	l ———	102.00.02	500.14.17.00	e .14.015.0
310:1,21	F	123:22,23	502:14,17,23	field 215:2
311:12,24	F 3:18	137:9 150:16	503:7,14,15,22	fifth 1:14 11:9
323:13 326:8	facilitate 173:12	150:19 157:7,8	503:24 504:13	305:8
326:17 330:10	fact 41:13 69:20	167:20 189:5	505:3	figure 101:6
331:23 332:7	78:13 160:16	202:10 209:10	FDA's 495:20	262:19 281:1
335:18 336:18	161:2 179:1	262:18 263:9	496:2 497:2	282:19 283:3
337:15 338:15	204:10 206:14	264:5 269:1	498:24	336:11 361:15
339:10 342:13	232:1 236:7	295:14 312:14	FDA.gov/cos	362:4 400:17
344:12,16	254:11 272:16	409:13 466:6	497:3	415:16,18
353:2 354:1	281:13 287:16	475:18	fearing 513:6	418:3 475:8
366:20 367:9	288:13 317:14	fairly 311:18	February 49:14	file 103:23 104:1
376:2 384:6	324:19 360:1	fall 36:20,24	104:12 108:5	104:10,22
390:23,24	361:12 369:16	284:16	115:3 124:6,19	106:18 107:6
391:4,23 394:4	380:5,11	fallopian 422:4	125:3 147:2	files 103:16
394:4 397:4,5	381:15,23	422:21 423:15	151:5	final 118:12
404:4,6,15,16	395:2,2 396:22	438:17 443:20	federal 504:7,20	144:15
415:8,11	403:2 414:7	452:8	feel 92:21 214:4	finally 144:5
417:11 420:10	432:18 435:14	falls 340:2	246:2 297:7,16	215:15 216:24
420:17 432:10	442:13 444:8	391:15	392:11 492:6	217:9
444:12,14	448:1 449:11	false 178:7,15	511:16	find 36:13 68:16
470:20 513:7	459:15 461:12	204:7 210:9	feeling 45:4	91:16 93:18,23
exposures 61:4	480:10 511:19	falsifying	168:17 310:3	94:12,14 128:4
61:19 86:5	factor 17:10,14	179:18	509:13 511:9	128:12 129:17
98:15 272:17	18:19,20 23:23	familial 456:6	fellows 23:7	130:8 131:13
316:13 337:21	24:9 243:11	familiar 204:22	fellowship	134:5 141:1
expound 222:2	405:11,15	267:11 287:13	284:11	150:9 160:8
expressed 318:9	487:20 507:12	familiarity	felt 164:9 190:1	165:7 179:21
461:13,14	factories 63:9	262:12	190:13 290:13	185:15 195:22
expression	factors 8:9 23:4	family 341:13	489:22 513:8	196:6 205:4,6
459:24 460:19	23:10,20 24:7	487:11	female 25:3	222:7 238:13
461:18 462:3	24:23 25:14,24	far 53:10 95:21	173:11 365:24	265:23 274:15
extend 80:4 86:6	26:9 158:24	214:18 238:8	366:2 422:24	280:15 282:7
extending	243:5 246:5	346:2 444:24	427:6 445:15	282:15,19
100:11	251:23 271:20	504:11	Ferante 88:18	283:1,3,9,16
extensive 91:2,9	271:23 296:10	fashion 35:7	fiber 42:13	286:3 288:4
extracted 417:3	296:14 487:7	faster 120:22	397:7,13 398:1	292:12 309:11
extrapolate	factory 69:10	430:5	fibers 41:16	311:19 312:21
337:3	332:18 369:15	fax 1:20	42:21 65:9	314:20,21
extrapolated	facts 107:19	FDA 9:6,19,22	74:7 75:16,18	315:3,5,7
353:5	fail 518:18	424:16 426:8	76:3 85:1,7,17	317:15 320:23
extrapolating	failed 93:18	426:14 428:5	85:20,22	321:9 337:14
336:10	failure 217:15	496:2,14 497:8	Fibres 5:22	342:3,5 367:20
extrapolation	fair 16:7,8,19	497:20 498:21	71:11	391:11 392:2
331:20,20	21:15 38:19	498:22 499:3	fibrous 109:1	446:1 453:24
extrapolations	41:14,20,22	499:14,18	170:9 478:17	463:10 480:14
333:11	42:20 113:21	500:8 501:4,11	482:12,16,23	506:7
eye 36:7 270:13		501:16 502:12	483:13,24	finding 61:1
				1

				Page 539
77 17 02 14	127.0.164.7	261 16 264 15	104 24 106 0	245 22 246 9
77:17 93:14	127:8 164:7	361:16 364:15	104:24 106:9	245:23 246:8
101:5 131:8	182:19 199:16	368:15 373:2	108:13 109:8	246:23 248:4
165:1 187:7	213:11 214:20	373:22 382:9	109:16 112:16	249:8,23
196:4 256:21	224:22 237:1	506:10	113:23 116:22	250:12 251:15
263:13 280:15	260:2 264:15	following	117:8,24	252:13 253:3
290:14 357:15	266:8 275:16	115:20 334:4,7	118:19 119:6	253:22 254:10
370:13 371:1	287:8 295:2	339:3	121:10 122:7	257:13,22
371:10 372:18	319:12 320:3	follows 11:21	122:17 124:12	260:1 262:9
391:23 395:7	321:21 323:1	Food 427:3	127:21 130:21	265:6 267:9
396:6 434:13	325:11 326:19	428:11	131:24 136:14	268:14 273:1
434:17 497:20	327:23 328:17	footnote 334:4	137:3 139:24	277:19 278:17
findings 61:5,8	365:20 377:5	488:4	142:4,17 143:4	279:3 282:12
67:4 80:3 86:7	407:14 425:4	force 15:9	146:7 147:6,12	283:14 286:17
89:2,12,17	430:17 443:18	forced 284:8,9	150:18 152:8	288:1,10,24
91:17 92:17	461:19 469:6	foregoing	153:9 155:3	289:22 291:5
178:23 179:13	476:9 479:7	517:18 520:6	156:4,15	295:16,18
179:21 205:14	FISH 3:3	foreign 240:14	157:18 159:2	296:3,21 299:1
241:24 256:16	five 61:16 62:8	240:17 423:3	159:17 160:21	300:19 302:2
259:12 272:10	87:21 89:3	forgot 31:9	161:8 162:1,20	303:13 304:15
275:22 276:7	217:3 376:10	308:18	163:1 165:12	305:17,23
280:3 303:24	471:19	form 16:24	166:3,10	307:8 308:13
307:24 358:10	flashes 37:4,7	17:13 18:2,12	170:17 171:13	312:3,16
358:17,18,24	flaws 293:15	19:2,20 20:20	172:2,8,18	315:16 316:7
359:19 373:20	313:1 319:21	24:2 25:16	173:5,15 174:5	316:23 317:19
379:16 395:6	flipping 310:8	26:3,23 27:14	175:22 176:5	318:6 319:9
419:14 433:21	Florham 3:9	28:4 29:3,21	176:10 177:5	327:13 330:8
435:2 436:19	fluid 151:19	30:20 32:18	177:19 179:6	331:12 333:2
fine 66:7 73:4	468:19	33:8,14 34:18	185:3 188:5	335:8 338:7,14
126:2 401:19	FLW 1:6	35:1,7,16 36:2	192:4,18	340:21 341:9
finish 52:18	focusing 68:12	38:23 39:6	193:13 195:6	342:11 343:9
92:12 133:16	folks 498:11	42:4 43:23	196:19 197:5	343:13 344:20
133:18 138:24	follow 313:22	44:20 45:21	198:14 202:8	345:12 346:6
163:10,21	338:1,10 339:6	46:3 47:3 48:7	203:14 204:13	346:17 349:6
166:13 233:2	380:13 458:1	49:18 50:15	207:2,13 211:4	349:21 355:11
237:16 306:16	495:17	51:3,20 53:5	211:6,16 213:4	355:13 356:21
310:17 327:23	follow-up 20:16	55:23 56:12	213:6 215:4,10	358:12 359:2
328:16 332:8	325:13 350:1,3	57:20 58:9	216:7 218:5	359:11 360:17
332:11 447:1	350:15 351:2	60:6,17 62:1	219:11 221:7	362:11 364:6
462:19 463:16	352:14 353:2	62:18 63:1,22 65:17 66:5	221:22 223:5	364:13 365:9
finished 79:7	355:18,20,23		225:4 230:11	366:7 369:8
133:11 485:22	356:2 361:18 363:22 368:16	70:5,13 77:5	231:5 232:16 234:17 235:8	370:19 372:21
516:1 first 11:20 12:23	379:6,14	84:14 89:22 90:23 92:1	235:14 236:23	375:21 379:21 381:8 382:24
21:9 33:17	3/9:0,14 404:22			
	404:22 followed 293:23	95:5,20 96:13	238:1,21 241:14 242:3	385:7,20 386:7
37:22 43:3	311:4 339:8	98:8 99:21 101:21 102:8	241:14 242:3 242:14 244:2	387:6,16 388:7
87:14 103:1 121:23 122:2	340:5 356:6	101:21 102:8	244:15 245:9	388:15 391:8 393:8 394:9,15
141.43 144.4	3 1 0.3 330.0	103.20 104.14	4 77 .13 4 7 3.3	333.0 33 4 .3,13

				Page 540
395:16 397:16	49:11	270:15 343:4	50:23 51:8	156:6,19
398:4,24	formulating	344:17 345:9	52:5,14,17,21	158:18 159:8
399:20 400:4	52:9 107:21	376:18 404:6	53:17 54:1,12	158.16 159.6
401:10 402:3	155:13	404:20 474:4	55:1 56:1,13	161:1,15 162:2
402:11 406:2	forth 108:5	475:20 476:3	57:24 58:4,15	162:21 163:7
408:18 410:22	350:3 401:6		60:8,19 62:13	162.21 163.7
412:14,22	406:11	frequently 343:1	62:20 63:15	165:4,13 166:6
413:22 414:20	forward 54:16	fresh 28:24		166:17 167:15
417:17 419:9	471:20		64:10,16 65:19	168:20 169:2
419:22 423:18	found 47:7	Frey 242:8 front 40:20 41:1	66:3,8,10 67:18,20 68:6	
427:20 431:9	75:17 76:3	45:12 211:18	,	169:17 170:1,5
			70:6,7 71:7,18	170:19 171:14
432:22 433:7	80:1 85:18	271:15	72:2 73:3,5,16	172:3,12,23
434:2,20 435:7	94:21 95:15	frozen 450:11	73:21 74:4	173:8,17 174:8
436:17 438:3	177:24 217:4	frustrates 209:6	76:16,21 79:3	176:1,6,15
439:10,12	228:18 237:12	full 39:24 71:14	80:8,14,18	177:8 178:12
440:12 441:12	276:4 280:11	71:20 74:2	82:1 84:15	179:10 180:7
442:1,11 447:5	280:11,18	87:14 91:22	90:17 91:20	183:9,10 186:2
448:4 451:6	282:5 307:24	127:8 138:17	92:4 93:1	186:9 188:6
452:22 454:22	310:23 321:1	148:11 155:11	95:17,23 96:15	190:11,22
459:11 460:4	323:5,16,18	164:20 203:16	99:17 101:11	191:13 192:7
462:6 464:21	373:17 376:22	232:23 443:18	101:24 102:9	192:19 194:11
468:9 469:3	378:10 390:20	443:19	102:16 103:4,7	195:12 196:24
470:16 475:24	391:4 409:4,6	further 45:3	103:22 104:16	197:9 198:23
477:21 480:6	409:7 436:12	76:14 110:23	105:3 106:11	200:2 202:9,24
481:3 482:19	443:4 453:21	203:20 383:12	107:17 108:15	203:18 204:14
484:20 485:5	454:16 477:12	420:17 442:20	109:11,19	206:4,6 207:5
487:23 489:10	482:12 505:11	449:10 463:19	110:7 112:17	207:14 208:3,5
491:6,18 493:1	foundation	504:14 515:20	114:1,23	208:23 209:13
494:12 496:8	155:19	G	116:24 117:14	209:20 210:6
496:17 497:24	four 13:20		118:4,24 119:8	211:11,23
499:9 500:3,14	112:23 161:2	game 390:4	121:12,18	213:10,17,20
500:22 501:9	161:10 273:5	Garber 2:3 5:5	122:13 123:3	214:3,6,13
504:17 505:7	273:12 305:8	12:1 17:2,18	124:16 125:1	215:5,13
506:22 507:24	356:17 357:8	18:8,17 19:15	125:23 126:4,8	216:13 218:17
508:17 509:24	369:18 376:10	20:5,23 24:12	126:17 129:7	219:15 220:17
510:19 512:4	405:22 406:11	25:17,19 26:12	131:11,21	221:8 222:19
512:23 513:13	489:5	26:24 27:5,23	133:7,14	223:7,21,24
514:11,17	fragrances	28:15 29:7	136:19 138:15	224:8 225:5
520:10	109:14	30:1,21 31:4,8	139:2,9,11	230:24 231:8
formal 26:5	frame 264:11,13	32:10,23 33:11	140:3 141:20	233:3 234:20
format 285:1	264:24 336:6	33:20 34:19	142:6,19	235:10,18
formed 24:11	fraught 285:7	35:8,19 36:18	143:10 144:8	237:18 238:17
44:14 47:19,24	289:18	39:2,15 40:1,2	144:10 146:10	239:3,13,21
345:23	free 108:18,24	40:5,11,15	147:8,21	240:24 241:2
forming 108:2	256:20	42:19 44:5	148:13,16	241:17 242:5
117:16,20	French 487:3	45:8 46:21	150:20 152:11	242:16 244:5
formulated	frequency 29:23	47:4 49:9 50:5	153:14 155:5	244:18 245:13

				Page 541
246 1 11 247 5	277 0 12 10 24	402 4 404 22	02 10 21 22	265.7.266.21
246:1,11 247:5	377:8,13,18,24	483:4 484:23	83:19,21,23	365:7 366:21
248:22 249:12	378:3 380:20	485:15,19	84:5,13 85:6	368:6 372:11
250:3,13 252:6	382:2 383:3	486:8,15 488:3	110:15 158:7	372:18 373:17
252:18 253:6	385:14,22	488:13 489:13	177:24 178:21	378:24 379:10
254:1,23	386:11 387:7	491:9 492:8	270:24 271:5	379:17 380:5
255:17,22	388:1,11 389:1	494:5,17	314:16 320:6	380:10,14
256:3 257:16	393:1,11	496:11,22	330:1 356:23	382:21 383:5,8
258:1 261:2	394:12 395:10	499:2,11 500:7	406:5	403:12 411:18
263:23 266:5	396:9 397:20	500:18 501:1	generally 32:11	411:23 412:11
268:8,16	398:14 399:1	501:23 503:4	37:24 137:16	413:11,19
271:13 273:3	399:24 400:23	504:24 505:8	141:2 177:3,15	415:9
274:2 276:3,6	401:14 402:4	507:1 508:8	241:12 245:7	getting 59:12
278:6,23 279:7	402:14 403:24	509:17 510:1	246:24 247:1	75:2 77:7
282:22 283:15	406:6,24	511:24 512:7	313:14 320:4	226:24 254:13
286:19 288:5	407:20 408:3	513:9 514:7,14	genital 9:13	255:7 318:19
288:11 289:9	408:19 411:1	514:21 515:17	173:11 280:16	389:18,24
290:1 291:8	412:17 413:2	515:24	311:24 357:17	390:1,3 391:14
292:20 295:21	413:23 414:21	gas 63:7 69:8	374:16 419:5	Ghio 9:12
296:5,22 298:2	415:2 417:20	78:1 332:17	423:1 427:6	465:22 468:23
299:3 300:22	417:23 418:21	369:14	437:20,24	girls 88:7
302:7,12	418:23 419:10	gate 48:2	438:15 445:15	give 78:18 88:17
303:14 304:17	420:3 421:13	Gates 8:11 48:3	448:9 476:15	99:5 121:24
305:18 306:2	421:22 424:4	149:12 207:16	genitals 28:24	128:15 132:11
306:18 308:6	424:13 427:24	311:4 324:13	29:10 30:10,17	141:15 194:12
312:6 313:13	430:23 431:1	324:15,17	31:17 32:5	195:19 205:15
315:17 316:10	431:10 432:24	339:7 356:1,2	33:6 131:18	212:1 228:10
317:2,21 319:2	433:9 434:11	357:14 358:4,8	134:21 135:16	228:11,13,17
321:15 327:19	434:24 435:22	359:18 360:14	135:17 174:3	232:23 266:12
328:8 331:5	437:17 438:12	360:19 361:21	239:8 384:22	348:8 395:17
332:9 333:5,24	439:16 440:15	362:8,17,21	404:7,16	409:16 417:13
335:10 340:15	441:17 442:4	363:1,13,19,20	439:23 441:22	417:13 421:10
341:1,5,17	442:21 446:7,9	364:3,11,22	479:6 482:17	421:11 425:1
342:12 343:10	447:15 449:17	365:6 366:17	484:2 501:6	425:11,12
343:15,24	452:5 453:4	367:13 368:14	507:22 512:20	430:2 438:20
344:6,22	454:3 455:8	370:5 372:12	genuine 210:14	472:13 473:5
345:13 346:9	456:18,21	370:3 372:12	212:22	485:13 494:16
346:20 348:17	457:3,8 459:2	373:15 379:10	Gertig 8:8 48:3	494:18,21
349:17,24	459:12 460:6	379:16 380:10	135:8 149:13	508:5 512:17
350:23 354:11	462:9 463:4	381:24 382:4	248:16 310:22	513:24 515:18
356:13,15	464:15,23	382:12 411:18	344:2 347:2	given 15:15
357:1,6 358:15	466:24 468:5	411:23 412:10	356:18 357:10	50:11 53:18
359:3,14 362:2	468:15 469:5	413:10,20	358:1,10,19	73:1 138:4
362:18 363:17	470:1,3 471:10	414:3 415:11	359:19 360:3	181:13 182:3
	*	414:3 415:11		
364:7,19 365:3	472:14,18		360:10 361:20	182:24 183:13
365:10 366:11	473:7,20 474:1	general 6:11	361:23 362:20	241:21 262:2
369:24 371:6	476:7 477:24	21:5 23:5 26:1	363:23 364:4	285:16 286:2
373:24 376:1	480:20 481:7	26:8 38:1	364:12,16,22	288:13 297:8
<u>'</u>	•	-	•	•

				Page 542
	 	 	 	1
325:11,12,17	417:24 431:24	220:8,10	239:23 264:20	101:19 102:2,4
326:23,24	432:5 440:22	226:18 228:8	267:12 285:11	211:9 226:10
337:8 341:3	441:3 445:3	228:10,11,13	350:12 386:4	238:3 248:9,10
389:6 481:19	453:5 455:12	232:19 243:2	391:21 416:3	272:6 311:3
517:6 520:8	457:11 459:7	255:18 260:21	Google 120:4,18	312:10 315:10
gives 331:1	473:7 476:8	265:18,20,22	120:20	320:7,8 321:12
386:4 504:19	484:16,21,24	265:24 270:17	Gotshal 1:14	321:19 346:13
giving 24:5 26:8	485:23 489:16	271:4 274:3	3:12	346:14 356:6
178:7,22	503:14 508:19	285:10,11	government	373:2 385:18
179:16 337:19	509:5 510:12	292:21 316:17	145:2	397:13 398:2
372:23 463:19	511:5	319:13 320:15	grade 449:13	398:22 491:14
494:23	goes 65:7 86:2	320:16,20	451:13 461:12	492:11,21
glad 441:2 447:8	88:3 97:22	321:17,22	gradient 477:19	groups 92:16
447:16	183:24 201:8	324:21 327:17	graduate 284:10	201:20 322:9
glean 122:14	214:19 263:8	328:16,23	grant 145:13	grown 250:19
gleaned 122:19	287:10 323:10	330:4 337:24	granuloma	guess 16:3 28:10
gloves 400:8	338:19 378:15	338:1,4 342:1	449:2	38:5 39:8
go 15:1 31:9	382:10 398:20	344:1 360:8	granulomas	59:18 86:11
50:20 53:14	400:16 434:8	362:3 363:6,7	448:17 450:6	115:19 130:23
54:1,14 65:4	444:16 458:24	372:23 392:23	granulomatous	131:2 149:4
66:11,13 67:3	going 15:17 16:6	397:10 403:15	449:3,16	250:16 280:2
67:14,24 68:12	21:12 30:22	407:1,21	451:20	418:2 426:24
68:14 72:5	39:18,19 40:6	409:16 410:12	gravel 87:6,9	427:7 475:16
88:18,20 94:2	43:15 45:9	417:21 424:14	Gray 1:15	493:23 502:2
94:6 98:3	59:13 61:7	428:14 435:21	517:12	guidelines 305:6
99:12 100:14	64:6,11 65:20	451:3 453:7,10	great 170:3	guilty 120:20
112:20 129:16	66:24 67:11	456:24 458:4,6	214:2,8 228:16	guinea 130:10
130:7 133:9	71:8,22 72:11	471:11 472:2,5	230:19	guys 126:1
136:16 146:11	75:8 76:4,5	474:14 475:1	greater 194:15	255:24 377:14 CNN 170-22
161:12 165:8	77:9,21 79:4	480:9 481:9,13	195:16 198:7	GYN 179:23
167:7,8 169:6	99:12 100:13	484:3 485:10	241:23 339:9	242:10 455:20
169:20 182:19	100:23 101:1	485:13 486:9	368:1 370:6	456:10,14
189:14 194:21	114:24 125:13	488:8 493:12	371:9,19	gynecologic
202:11 203:19	125:20 126:11	493:16 494:1,7	376:11 472:21	12:10,14 39:10
206:13 208:4	136:1,3 137:10	494:15 498:20	greatest 293:22	126:20 136:21
209:8 218:1	139:4 144:5	498:23 501:19	Green 232:1	176:16,18,22
237:8 258:20	148:14 159:12	509:12 511:13	233:12 490:14	178:4,14 179:2
269:16,19	164:17 168:7	511:20 512:1	490:22 491:1	180:11 181:4
272:14 275:15	169:22 170:1,2	Golkow 1:20	Greenland	249:14 487:12
285:15 297:22	176:11 180:1,8	11:5	199:18 201:6	507:6
319:3 324:15	185:11,12	Gonzalez 8:16	207:24 209:16	Gynecology
324:22 327:16	189:11,12	48:4 207:9	287:9	488:16 490:1
335:24 361:6	190:7 193:19	403:17	group 30:23	490:11
366:13 367:20	195:1 200:3	good 12:2,3	87:15,17 93:8	<u> </u>
373:9 384:1,14	202:3 205:5,6	15:20 24:15	96:6,11,17,24	H 5:10 6:2 7:2
390:10 397:6	205:7 206:3	125:21 158:12	97:5 98:7 99:1	8:2 9:2
403:4,7 416:17	209:24 216:10	239:10,11,22	99:19 101:16	0.4 9.4
L	•	•	•	

				Page 543
H2O 196:5	182:4	heed 500:1,10	398:1 449:13	487:11
habitual 250:7,8	head 196:1	500:24 509:18	451:13 461:12	Holcomb 1:13
251:1,20 257:1	270:24 441:16	512:1,21	higher 17:16,19	5:4,15,17,20
257:9 258:4	heading 83:20	held 1:14 11:9	152:1 260:13	6:10 11:13,19
263:7 267:22	215:16 217:1	282:1 284:7	272:18 397:8	12:7 54:10,23
338:22	304:4 351:21	318:23	444:14 445:20	110:14,17
hair 469:23	430:14 503:20	Heller 48:4	470:21	168:3 285:22
half 111:12	health 142:13	132:5 134:19	highest 248:14	412:8 517:8
217:4 224:1			455:24	
	143:11,20,23	397:2 398:18		520:16
232:7 313:8,9	144:4,12,20	432:3 448:11	highlighted	Holcomb's
halfway 74:20	145:23 171:10	Heller's 436:19	293:5	81:20
256:7 271:19	171:20 220:3,5	437:2	highly 200:16,23	Holcomb-1 5:14
275:17	220:10 222:21	help 85:9 101:6	217:17 318:23	40:14
hallmark	256:18 258:21	217:12 250:18	445:5 495:11	Holcomb-10
158:11	261:4 311:8	284:23 365:14	Hill 160:5	6:17 200:1
halt 217:12	324:24 325:9	463:11	161:14 164:5	Holcomb-11
hand 97:10	329:5 331:7	helped 45:3	233:19 246:5	6:19 220:16
handed 53:9	338:18 344:10	79:18	247:11 420:13	Holcomb-12
72:20	363:22 365:21	helpful 52:16	427:15 428:21	6:21 224:7
hands 499:20	365:23 376:22	290:19,23	429:5,12,15	Holcomb-13 7:6
Hang 462:21	378:9 380:21	291:20	430:9,16	255:16
happen 100:8	381:4,20	helps 181:24	431:15 436:6	Holcomb-14 7:9
129:4 132:14	402:15,18	Henry 4:10 11:4	477:18	271:12
267:1 422:12	403:7 413:24	herpes 120:14	Hill's 115:20	Holcomb-15
422:16 424:1	414:2 419:3,17	hesitating 498:6	hired 38:17 42:1	7:12 274:1
happened	420:4,6 427:13	heterogeneity	42:22 43:9	Holcomb-16
337:10 356:5	428:14,19	236:13,18,22	44:7 515:6	7:16 292:19
461:3 464:12	430:7 431:16	236:24 237:8	Hiroshima	Holcomb-17
491:20	436:6 439:20	237:11,20,22	326:14 332:20	7:18 302:11
happening	446:11 477:16	238:5,6,9,11	336:7	Holcomb-18
66:21	494:10	238:14 285:4	histologic 8:10	7:21 333:23
happens 262:13	hear 267:17	319:14 320:19	94:2 259:10,13	Holcomb-19 8:6
427:10 438:8	heard 197:19	320:24 321:5,9	259:16,22	344:5
happily 284:9	201:18 359:4,7	322:13 323:2,5	260:12 450:16	Holcomb-2 5:16
happy 68:14	hearing 6:11	323:11,16,18	histologically	45:7
346:23 434:14	63:17 110:15	323:22 361:3	310:24	Holcomb-20 8:9
434:22 440:22	hearings 37:19	hierarchies	histology 249:19	363:16
441:8	heart 389:19	300:17	historical	Holcomb-21
harbored 44:8,8	400:17	hierarchy 282:1	478:11	8:12 377:17
hard 105:16,22	HEASLIP 3:12	293:19,21	historically	Holcomb-22
106:1 214:8	heavy 28:6	294:4,9,15,16	248:13	8:14 403:23
282:18 283:3	61:16 86:5	294:18 298:17	history 26:5,6	Holcomb-23
285:8 493:3,23	87:22 95:13	301:24 302:6	26:13,16,22	8:17 406:23
hardcopy	98:14 109:5	303:7 304:4,19	27:1,6,17	Holcomb-24
105:19	170:9 326:16	305:2,14	28:11 132:18	8:20 407:19
harm 217:20	331:22 332:7	high 248:24	342:2,6 391:23	Holcomb-25 9:6
hazard 181:13	335:17	260:18 397:13	397:3,4,9	424:12
	<u> </u>	<u> </u>	<u> </u>	

				Page 544
	201 5 15 16 15	5 00 6 5 10 10	l., ., ,,,,,	l
Holcomb-26 9:8	301:7,15,16,17	508:6 510:10	identical 204:3	important 15:4
468:4	hot 37:4,6	512:18 513:16	identification	49:1 68:11
Holcomb-27	Houghton 8:13	hysterectomy	40:13 45:6	135:24 137:23
9:13 471:9	48:3 374:9	442:9 444:13	64:14 71:5	161:17 259:7
Holcomb-28	375:6,19 376:3	444:20	72:14 74:17	260:4 323:11
9:15 486:14	376:21 377:8		102:14 110:5	331:9 343:6
Holcomb-29	377:20 379:9		114:21 180:5	351:14,21
9:17 488:12	383:13	i.e 84:6 183:2,4	186:7 199:24	361:8,10 372:9
Holcomb-3 5:19	hour 60:10	183:15,17	220:15 224:6	impossible 19:7
64:15	125:20	IARC 5:21 48:4	255:15 271:11	impressed
Holcomb-30	hours 59:7,23	48:5 61:17	273:24 292:18	495:13
9:19 496:21	60:4 112:1,12	63:5 68:21	302:10 333:22	impression
Holcomb-31	112:18,21,22	69:16,24 70:4	344:4 363:15	355:21
9:22 503:3	114:11 214:20	70:10 71:9	377:16 403:22	impressive
Holcomb-4 5:21	354:23	77:19 78:4,7,9	406:22 407:18	460:21
71:6	HPV 120:14	79:23 80:11	424:11 468:3	inability 390:13
Holcomb-5 6:6	HRT 242:22	81:19 88:15	471:8 486:13	inaccuracies
102:15	243:6,11,16,18	89:1,11,16	488:11 496:20	282:4
Holcomb-6 6:7	Hulfish 3:13	91:1,7 92:9,15	503:2	inadequate
110:6	human 71:11	94:15,21 95:2	identified	351:3 369:3
Holcomb-7 6:10	82:19 83:16	95:19 96:7,20	208:15 432:13	inappropriate
114:22	128:9 130:2,16	97:11 98:19	identify 107:19	208:8 379:13
Holcomb-8 6:13	132:13 134:16	99:2,19 100:10	376:8	464:2,4
180:6	135:15 136:7	101:15,18	identifying	incident 327:2
Holcomb-9 6:15	215:17 220:20	224:15 225:7,9	48:24	include 117:3
186:8	325:19	225:11,17,17	ignoring 319:4	149:12 203:1
hold 89:14 91:18	humans 224:21	227:2 228:3,20	II 63:9 69:8,9,9	413:19 414:6
141:12 151:13	HURST 2:7	229:1,4,10,12	365:23	414:10,12
178:1 190:23	hyped 201:10	229:16,19,21	Illinois 4:4	416:23 418:15
192:23 247:8	hypothesis	247:19 272:5	illuminated	483:21 487:8
247:17 275:7	259:14 280:8,9	419:12 420:1	293:5	included 21:16
334:9 367:19	398:13 433:22	420:22,24	imagine 49:2	48:2 54:11
448:6 474:15	434:4,9	491:3,12	106:19 107:1	55:19 61:2
holding 296:16	hypothesize	492:10,19	205:10 493:4	165:23 203:24
honest 47:6	398:7 424:8	493:5 494:1,9	immunohistoc	228:21 229:4
90:24 341:10	hypothesized	494:13 495:6,8	79:17	362:15,16,20
475:7 493:3	430:19 431:18	495:14,16	impact 238:16	362:22 365:5
513:4	hypothesizing	510:22 511:3	324:3 442:19	371:18 379:7
honestly 177:23	424:2	IARC's 60:23	446:5	411:17,23
251:16 341:11	hypothetical	61:8 97:2	impacted	414:2,12
hope 407:24	96:22 330:14	98:13 228:1	251:21	416:12 418:5
hopefully 169:4	337:20 482:9	495:9	imperative	includes 16:14
388:22	482:21 483:9	ICD-9 79:14	518:14	75:17 85:19
hoping 91:1	483:20,22	idea 21:8 65:12	implicated	154:19 202:21
159:4	492:10 493:7	67:2 389:13,23	256:14	232:3,4
hormone 242:21	494:16,19,24	392:3 430:3	implies 303:22	including 16:20
hospital 125:18	495:3 502:6	461:15	303:23 395:8	25:3 222:7
nospitai 123.10	773.3 302.0		303.43 393.0	23.3 222.1

252 1 224 12	211 1 0 11 10	202 20 210 0		112 24
252:1 324:13	311:1,9,11,19	203:20 210:9	inflammatory	112:24
360:11,19	312:1,12 315:7	224:19 225:1	487:14	intention 214:4
362:14 455:3	324:10,14,18	298:16 325:10	inform 92:17	interaction 38:4
487:12 492:15	328:22 339:11	408:12 416:4	informal 15:12	296:13
inconsistencies	354:1 355:6	420:11 443:19	information	interest 50:20
164:11 392:17	356:18 357:24	472:20 487:6	23:5 48:17	53:20 461:7
455:2	360:23 363:2	497:8,14 499:3	53:9 178:8	interested 68:10
inconsistency	373:23 378:17	indicating 84:11	277:7 379:14	205:1 212:5
42:18 184:1	382:8 409:3	294:2 487:19	448:13 463:20	297:2 390:9
185:21 188:23	446:17 469:13	indication 466:9	504:4 510:8	400:15 504:13
307:21 442:18	479:14,19	indicative	informed 156:1	interesting
449:7	493:15 498:17	420:18 436:8	informs 160:1	164:12 183:22
inconsistent	514:6	indirect 101:4	Ingham 13:6	228:3 280:19
150:14 185:23 i	increases 65:9	indisputable	14:23 38:2	interestingly
188:2,13 189:1	89:6 90:9	425:18,23	40:23 44:10,14	447:7
190:2 191:10	203:24 447:19	426:2,6,10	45:1,12 46:14	internal 154:5
192:1,6 219:7	465:4,6 484:14	427:8 430:22	46:17,23 47:20	154:11,20
223:10 339:20 i	increasing 254:7	individual 19:4	48:1 60:12,23	478:15
339:21 392:18	268:20,24	19:7,9 29:5	61:6,22 62:10	international
460:12 484:10	270:11 361:18	36:17 194:21	64:18 106:2,7	79:13
incorporated	435:5	195:8 224:16	109:20 113:12	interpret 66:16
-	incremental	225:16,18,19	116:16 346:11	66:18
incorrect 169:18	493:21	225:23 227:3	386:13 515:5	interpretation
increase 67:8	independent	227:24 325:15	Ingredients 9:22	277:15 278:5
90:4,7,14	47:13 347:1	375:23 391:2	Inhalation 84:5	Interpretations
174:22 183:3	INDEX 10:2	446:3 469:17	inhibitors	217:2
183:18 187:7 i	indicate 125:8	individuals	461:15	interrupt
245:19 252:22	187:18 220:22	469:10	initial 19:24	163:22 190:7
254:16 259:22	242:20 250:5	induce 174:14	310:22	210:1 327:21
262:12 269:11	274:5,10,24	436:14 440:8	initially 306:21	357:5 466:23
269:17 349:13	340:17 375:8	440:18 441:7	initiation 334:24	interrupting
376:23 392:10	407:5 411:15	464:17 466:5	initiative 338:18	169:8 209:18
405:9 465:1	423:9 431:17	induction 125:5	insanity 227:16	209:19
increased 63:13	440:7,18 443:3	indulge 457:1	insert 168:9	interval 149:24
70:19 78:15	445:14 452:19	infections 36:12	inside 123:12	189:4 193:24
88:24 89:3	466:4 470:6	36:14	instance 435:4	194:8 197:14
	indicated	inflammation	instances 464:7	202:5,21
98:17 124:10	220:19 273:8	174:15,18	institution	203:23 219:8
149:8 183:5,16	273:15 333:13	431:20 434:5	300:16,21,21	347:16 348:23
187:21 188:18	413:18 428:6	436:14 440:5,9	301:5,8 494:9	353:18 354:18
	indicates 30:8	440:18 441:7	INSTRUCTI	370:8 376:24
243:8 245:15	30:15 31:15	446:17 447:19	518:1	378:17 386:10
253:12 260:19	32:3 40:21	448:8 449:3,4	insufficient	386:13,16
260:23 261:9	41:2 83:18	449:16 450:21	510:23	387:3 474:21
272:22 273:9	93:7 111:19	451:4,18,21	integration	intervals 187:5
276:10 309:24	182:3,22	461:24 464:18	302:23	196:13,23
310:10,15,20	195:15 202:12	465:2,6,9	intend 112:12	205:21 217:22
		- , - ,-		<u> </u>

				Page 546
226 24 225 22	02.2.05.1	44.7.7.10.10	207.5	05.2.06.12
226:24 235:23	93:3 95:1	44:7,7,18,18	297:5	85:3 86:12
372:8 477:11	131:14 138:13	60:2,2 97:20	jumped 510:21	98:1,9 111:11
intraepithelial	158:19 168:5	97:20 99:8	Justice 495:21	121:22,23
448:20	182:21 234:21	100:22,22	496:5	128:17 129:19
introduction	237:11,20	107:20,20	justification	130:22 134:15
138:9 202:2	247:12 272:7	108:1,1,23,23	267:21	138:10 141:13
382:1 400:14	273:10 321:9	109:4,4,13,13	K	146:15 149:10
introductions	331:9 355:19	109:21 111:16		150:10 155:8
402:24	396:23 426:9	111:16 112:7,7	keep 57:21	155:10,18
invaluable	issued 110:20	112:12,13	166:16,20	156:12 158:14
230:7	111:15 143:19	113:1,1,16,16	167:18 179:14	178:6 199:17
invasive 256:22	494:4 508:9	114:9,9 154:13	183:6 196:14	199:20 200:9
353:17 357:24	issues 26:7 37:2	154:14,22,22	226:17 236:4	205:16 208:13
378:18 451:10	78:7,9,12	315:6,6 354:14	297:16 318:11	209:3,10,21
invested 316:17	116:7 152:5,15	354:14 478:9,9	320:20 321:17	213:20 216:14
investigate	289:18 398:17	478:14,15,15	328:13,14,23	218:11 226:3
316:3 504:1	499:23 507:19	478:16 480:23	417:9,10 423:3	244:8,17,19
investigation	510:14 512:18	480:23 482:11	512:11	247:19,24
154:13	Italy 63:10	482:15,22,23	keeps 36:13	250:22 251:4
investigator's	69:11	483:12,13,23	229:9	255:4 258:10
225:19 227:3	Item 103:16	484:18 485:2	Ken 292:15	258:12 265:14
investigators	146:19	499:5 500:9	Kenneth 199:20	274:20 278:7
224:17 225:16	items 111:8	Johnson's 16:15	286:21 287:8	279:8,20
225:18 227:24	215:22 463:23	16:21 99:8	288:6 292:23	284:18 285:3
invoice 6:9	-	109:22 482:11	kept 66:22	285:19 288:6
111:15 112:12		482:15 483:23	222:13	288:15 292:2,2
invoiced 112:6	J&J 31:3 42:1	484:18 485:2	Kevin 1:13 5:4	297:9,14 298:5
113:19 114:3,8	42:22 47:1,8	499:5 500:10	5:14,17,19	298:7 299:8,14
involve 153:18	J&J's 497:20	journal 6:16 9:8	6:10 11:13,19	299:15 300:1
240:4,7 241:11	JAMES 4:3	115:11 176:22	12:6 110:14,17	302:3,4 304:5
involved 49:22	james.mizgala	177:2,2,12	517:8 520:16	307:13 322:22
50:8 116:6	4:5	179:4,20	key 47:23 48:16	326:6,8,18
122:1 404:1	January 38:8,9 151:4	184:19 200:10	Khabele 461:3	332:20 337:4
479:8	_	200:13,17,23	kind 16:10	337:16 338:2
involvement	Jason 488:23	299:20 411:9	knew 284:15	341:15,22
38:3 44:24	489:21	489:24 490:2,9	286:21 506:6	342:19 346:12
46:13	Jersey 1:2 3:9	490:16,22	know 14:21	346:13 350:22
Involving 445:9	3:13	491:1	15:16 18:21,23	362:8,19
irregularities	JNJ 9:7	journals 217:4	20:7 26:21	368:19 375:14
140:11 178:20	job 15:20	judge 168:6	33:23 40:5	382:19 383:23
irrespective	Johnson 1:4,5	169:7	47:9 51:9,22	384:6 386:8,20
235:21	3:15,15 12:21	judgment 156:2	52:7 55:24	389:8 390:13
irritation	12:21 13:1,1	157:10,15,16	61:5 63:6 66:4	390:14 396:22
431:20	16:14,20 32:14	157:20 158:14	66:16,17 67:9	400:18 405:2
isolation 249:10	32:14,24,24	242:18 426:3	73:23 74:9	406:16 417:21
issue 23:14	37:10,11 38:18	Judith 156:17	78:17,24 79:10	427:1,5 439:5
52:15 88:16	38:18 41:15,15	jump 280:6	83:6 84:18	448:14 454:10
	<u> </u>	<u> </u>	ı	

				Page 547
	l	l	l	l
459:20 460:11	429:9	leave 258:8	449:18 452:10	243:13
460:13 462:12	late 38:4 335:2	321:24 379:23	473:7 485:19	limitation
466:1 477:10	361:13 369:23	482:7	485:23 494:15	256:15 316:21
480:2,22	473:16 487:10	lecture 24:5	496:23	317:5 344:9,15
489:12 498:7	latency 19:17,23	26:8	letter 9:6 208:21	350:16 351:10
498:11 502:6	20:11,15 21:3	led 49:5 205:14	424:16 426:13	352:6,14
502:15,16,22	21:6,12 325:12	308:3	letters 143:19	367:11 375:18
505:12,14,22	326:5,6,7,11	left 94:10 334:18	letting 167:16	387:1 388:2
505:23 506:10	326:20,21,24	left-hand 181:21	327:9	limitations
507:2,11	327:1,2,3,8	181:23 256:6	level 19:8 97:12	88:15 170:13
509:11 512:8	328:11 331:8	293:4 334:19	189:12,13,15	170:22 308:24
knowledge	331:15,17	486:20	226:6 280:4	309:2,12,15,19
39:14 293:9	332:2,5,16,24	legend 416:4	284:10 307:22	313:17 315:10
498:4	333:14 334:5	LEIGH 2:13	314:4 330:19	315:12,14,24
known 20:1,6,8	334:24 335:19	leigh.odell@b	330:20,22	351:14,22
262:16 263:3,4	336:2,12,17	2:16	389:14 390:8,9	352:1 353:7
263:6,9,24	337:1,5,7,17	length 345:10	391:20 495:15	404:15 405:20
264:3,16,23,24	337:23 338:11	lesion 448:19	505:19 506:7	406:4,12
265:3,4,8	338:12,14	449:13	514:2	limited 38:21
288:7 335:15	339:14 351:4	lesions 448:23	levels 152:1	39:1,4,8 41:18
knows 67:15	352:16 353:1,1	451:19,22	281:6,10,13	42:1 91:7 95:2
282:16 283:2	353:4 356:8	lesser 323:11	282:14,24	95:19 119:18
331:19 399:11	369:1,11	let's 21:23 39:16	283:11 409:14	128:3 176:2
427:6	laugh 214:6	83:24 102:11	470:20 471:5	235:19 252:16
Kunz 437:19	laughed 214:11	121:13 151:2,3	505:11	389:22,23
	launched 190:18	169:20 173:18	Lheureux 9:16	476:17
L	law 15:11	181:7 182:16	487:4,5	limits 69:24
L 1:15 2:3	lawsuit 264:6	186:3,3 201:15	LHG 1:6	70:10
517:12	lawsuits 265:10	202:13 203:19	liability 1:6	line 10:6,9,12,15
lab 140:12 141:5	276:9 277:14	207:21,21	264:9 266:3	52:18 305:10
141:24 461:8	278:22 279:21	208:3,3 213:18	library 54:17	430:17 513:5
label 501:15	lawyer 81:7	214:12 220:5	lied 178:9	519:4 521:2
labeled 160:23	159:13 199:8	234:23 235:1	lies 371:4	lines 41:11
lack 188:3,14,17	213:22 216:14	250:19 255:12	life 37:2 251:2	45:16 64:23
188:22 238:10	LAWYER'S	270:8 271:6	369:23 444:14	336:1 444:7
307:24	521:1	273:21 292:15	lifetime 250:23	link 306:19
Lancet 486:11	lawyers 56:16	294:23 302:13	417:2 487:8	list 24:8 45:2
Langseth 7:11	107:20	315:22 324:24	ligation 441:23	47:18 49:12,15
271:7	lay 265:14 266:1	334:1 337:12	442:8,17 443:5	49:24 50:3,24
large 139:3	266:2,9 278:15	338:17 343:15	443:20 444:9	51:1,10,23
265:9 316:12	468:7	363:12,12	444:19 446:5	53:7 54:4,17
317:10 328:21	lead 274:5,11,24	377:19 383:12	light 399:14	55:12,20 56:3
506:10	leads 188:23	389:2 406:18	likelihood 17:16	56:15,18 57:14
largely 149:4	464:18	415:14 416:14	17:20 352:24	69:21 106:20
227:5 321:11	learn 388:22	416:14,17	likewise 125:3	110:23 119:14
410:9	503:22	418:12 420:6	limit 48:15	121:2,11 124:2
larger 202:17	learned 284:5	421:13 440:4	225:9 243:12	131:13 138:17
	10011100 20 1.3	121.13 110.1	223.7 2 13.12	151.15 150.17

				Page 548
120.17 140.1	101.14.102.4	220.10 421.11	220.1 (224.0	222.24.226.21
139:17 142:1	181:14 182:4	338:10 431:11	330:1,6 334:8	233:24 236:21
142:12 143:2,6	185:13 206:16	453:8	350:5 356:2 357:11 362:23	238:2 281:23 281:24 284:4
148:21 149:1	206:20 210:19	long-term 384:7 417:2		289:7,10
149:21 150:6	220:21 241:5		365:17 377:3,4	315:23 317:9
152:4 155:12	246:15,21	longer 311:4	377:20 388:18	
231:23 233:11 233:14 235:16	247:15 248:23	355:23 361:17	395:24 396:1	374:23 375:4
293:13 388:24	253:10,15 262:4 289:12	373:3,18,22 382:9 385:11	397:10 415:14 416:14,14	375:11 377:2 410:9 415:19
424:19 441:2	307:20 313:7	495:13	420:6 434:14	415:20 416:2
441:15 463:23	336:21 352:7	Longo 478:10	434:23 435:10	429:17 430:1
507:12	359:17 389:12	Longo's 170:7	436:2 447:8	454:8 473:1
listed 49:12 53:3	390:12 470:24	look 31:21 39:16	449:22 450:10	475:11 477:5
111:3,7 117:2	483:1,15,21	53:11 72:5,7	450:13 451:9	504:13 505:3
117:21 119:13	509:6 514:23	72:11,17 73:6	460:13 471:23	looks 67:10
143:1 146:3	lithotomy	75:3,3,11	474:17 475:1,8	125:12 228:20
167:5 405:22	438:20	78:13 87:12	477:23,23	232:6 321:24
408:9 489:5	litigation 1:7,20	88:18,21 93:5	485:16,20	448:14 511:10
listener 468:7	11:5,11 12:20	129:10 130:1,5	486:21 492:11	loosely 149:17
listening 300:14	37:11,12,24	130:15 135:14	496:14	losing 94:20
332:13,14	43:4 103:18	136:7 141:16	looked 57:1,4,11	lost 348:9
listing 24:6	108:6 113:18	142:1 143:6	77:18 115:19	lot 77:8 169:21
lists 49:13 51:15	115:5,7,10	146:19 149:14	115:22 116:4,5	233:17 279:15
52:24 57:12	154:8 266:10	164:13 165:6	129:21 134:22	322:10 355:19
58:19 74:7	396:19 479:9	178:20 181:7,9	137:5,8,13	392:4 403:10
105:6 112:1	505:2 515:14	181:17 182:16	142:7 149:20	448:23,24
117:3,22 146:4	little 24:3 35:10	189:9 192:8	149:21 151:19	471:1 493:18
146:14 304:4	42:14 57:22	201:15 202:23	151:22 165:21	499:22
305:8 381:10	61:9 82:22	208:19 210:7	206:17 236:18	loud 297:12
497:16	84:19 85:5	220:5 222:14	237:2,11,20	louder 57:22
literally 472:11	230:13 240:22	231:21,23,24	238:8 320:22	love 297:5
literature 43:13	305:13 321:13	233:17,18	321:11 323:12	low 185:22
43:16 47:24	365:2 415:4	236:7,16 238:8	323:18 352:6	245:21 307:22
52:2 57:9,11	438:21 445:20	255:12 256:10	359:18 418:4	325:20 329:17
62:5,7 67:9	502:22	256:10 262:14	420:23,24	330:19,22
90:20 91:3,23	lives 352:11	266:13 269:12	448:12 452:12	387:22 460:19
92:20 97:18	living 251:10,11	269:13,22,24	461:9 493:20	461:18
104:21 105:10	LLC 4:6,6	270:8 271:6,17	495:6	lower 435:15
105:21 106:13	LLP 1:14 2:7	271:18 282:7	looking 73:8	lowest 248:11
111:20 116:20	3:3,7,12,17 4:2	283:22,24	97:16 116:7	LPA 151:23
128:6 131:17	long 26:21 35:4	285:4 288:19	120:10,13,17	ludicrous
133:2,5,22,24	112:20 226:17	292:15 293:3	122:9 123:8	203:21
134:2 136:24	284:7 293:15	300:15 301:23	127:7 128:7	lump 373:12
137:5 146:15	313:22 325:12	303:15 307:18	137:10 166:15	lunch 125:13
155:18 157:11	326:5,21,24	313:6 315:22	166:18 181:16	223:23 239:17
157:14 162:10	332:23 333:8	318:17 319:13	197:10,11	239:23
162:14 165:7	334:23 335:19	322:3 324:6,24	200:5 202:2	lung 306:20
173:24 174:12	337:5,7,17	326:12,15	227:5,14	342:4 468:20

_				Page 549
h		224.5 255 14	206.14.17	245.0
lymph 123:9,12	management	224:5 255:14	396:14,17	345:9
lysophosphati	281:17 303:10	258:21 271:10	423:3 492:23	mechanism
151:24	305:20	273:23 292:17	513:8	57:17 58:6
<u>M</u>	Manges 1:14	302:9 333:21	matters 13:23	65:12 126:22
M 2:13 3:3,8,12	3:12	344:3 363:14	14:13 396:18	140:6 142:8
426:24	manifestation	377:12,15	McCLENNEN	174:1,13 393:6
M.D 1:13 2:13	335:1	403:21 406:21	3:3	394:6 401:7,24
5:4 6:10 11:19	manner 168:13	407:17 424:10	MD 5:15,17,20	422:1,19
147:2,19	mantle 372:24	428:15 468:2	MDL 37:24 43:3	423:13 427:16
488:24 517:8	manufacturers	471:7 486:12	43:9 44:8	436:13 439:22
520:16	154:21	488:10 496:19	59:10 60:2	440:8 441:6,20
ma'am 75:5	manuscript	503:1	104:11 105:24	445:5
159:15 206:13	118:9,22	market 500:17	115:1,6 515:7	mechanisms
207:19 354:21	March 1:10 11:6	501:16	515:15	423:2 432:11
425:11 473:5	111:15 147:20	MARKETING	mean 17:6 33:18	mechanistic
macroscopically	151:5 200:7,8	1:5	37:3 39:1	57:3 492:18
450:7	486:11 503:11	marking 378:5	40:16 47:10	media 266:1,2,9
magnitude	517:15	marks 516:3	59:9 70:4	277:8 278:15
O .	MARGARET	Marte 4:10 11:4	76:19 78:8,10	medical 12:8,18
246:4,13,19	2:13	mask 63:8	118:8 121:10	13:14,24 17:23
247:9,10,20	Margaret.tho	369:14	132:2,24	18:9,13 23:6
main 448:5	2:15	masks 69:8 78:1	178:11 179:23	33:4,12,16,18
majority 128:18	mark 39:18,19	332:17	196:6 205:21	34:22 35:11,24
234:5,5,6,10	40:6 45:9	mass 151:21	234:19 255:3	36:6,16 37:6
234:13,13	64:12 71:8	Massachusetts	257:17 264:1	156:2 173:10
235:24 240:15	102:11 110:8	3:4 226:9	283:1,1 284:3	185:10 272:20
265:19	114:24 148:15	material 47:12	299:21 340:6	281:19 283:10
makeup 496:4	154:22 180:8	materials 6:8	364:14 395:22	283:11,23
making 67:2	186:5 200:3	23:3,14 45:19	400:6 433:15	284:12 301:3
69:8 77:24	220:10 224:3	45:20 47:7	438:5 450:7,9	301:11,12
81:16 120:12	255:18 274:3	51:14,17 52:7	472:1,10	303:19 372:5
196:15 205:9	292:21 302:13	53:1 110:16,19	498:21	medical/legal
278:24 299:22	334:1 344:1	117:19 121:11	meaning 85:19	499:23 513:6
319:24 332:17	363:18 377:19	146:21 155:15	195:16	medication
341:2 423:22	403:19 407:1	189:6 194:4,22	means 33:24	33:23 34:5
425:22 435:11	407:21 424:14	279:5 384:2	34:3 78:1 86:6	35:14 36:21
437:14	471:11 486:9	math 234:8	177:9 184:16	medications
malignancy	488:9 496:23	350:10,12	205:23,24	33:2 36:24
25:13,22	503:5	matter 11:10	217:5 312:20	37:3,4,7
455:20 466:16	marked 10:14	13:6,20 14:5	398:9 517:20	medicine 7:19
467:13,18,20	40:12 45:5	14:17,23 45:13	meant 233:20	7:19 9:9 178:2
469:17	64:13 71:4	46:23 49:12	measure 262:1	205:13 235:24
malignant 19:11	102:13,17	51:11 64:18	measurement	281:15 302:18
25:6 79:11,20	110:4 114:20	69:21 104:1,10	262:5	302:22 303:5
336:3 466:10	121:8 148:9	106:2,14	measures	303:17,20
469:14	180:4 186:6	107:13 108:11	217:23	305:20 306:1,5
man 456:5	199:23 220:14	109:20 148:23	measuring	394:17 446:20
	<u> </u>	l .	<u> </u>	

				Page 550
N. W. 110.22	140.7	205 2 10 200 6	200 2 404 5	220.0
Medline 119:22	449:7	285:2,10 289:6	388:3 404:5	338:9
meet 246:3	mentions 149:4	289:10,13	416:6 417:11	misconceptions
247:11	238:5 323:15	290:10 291:3	mic 469:24	7:17 292:23
Melissa 242:8	mere 393:22	308:17 312:7	Michelle 1:15	293:14,17
member 176:17	394:18,24	318:13,22	517:12	294:15
507:3	400:21	319:22 321:18	microphones	misdiagnosed
memorable	Merritt 265:17	322:4,5,7	126:10	93:10,16
250:7,9 251:12	mesothelioma	329:21 360:4	microscopically	misdiagnosis
251:19 257:2	78:23 79:12,14	360:12 361:1,7	449:24 450:9	86:22
257:10 258:4	79:21 86:23	412:4 413:10	middle 214:15	misinform
267:23	93:10,17	413:14 420:12	334:21 351:13	203:5
memory 48:9	469:14	443:4 444:2,17	374:13 375:1	mislead 204:6
123:9 263:2	message 125:17	446:2 453:15	416:19 424:23	misrepresented
266:20 280:5	met 477:9	455:4 474:7	425:3,9 497:14	154:14
347:1 419:23	meta 232:14	476:13 493:17	migrate 130:17	missing 204:23
menarche	meta-analyses	Metal-Analysis	131:18 135:17	339:14
487:10,10	8:21 206:23	8:18	138:5 174:2	misspoke
menopausal	220:20 221:3	metals 5:22	422:3 425:16	403:16
245:2	221:11,19,24	71:10 109:5	427:17 430:19	misstated
menopause	222:3,22	170:9	431:18 436:14	371:13 461:11
243:16	223:11 224:4	method 163:5	439:23 441:21	misstatement
menses 173:12	230:8 231:18	methodical	442:7,15	158:16,17
mental 118:16	233:5,6,7	163:6	migration 116:7	misstatements
mention 31:23	241:4 270:19	Methodological	121:16 122:11	489:18
101:17 134:12	270:20 284:16	271:20,23	129:9,22	mistake 77:10
135:8,11 138:3	284:19,23	methodology	130:12 131:15	196:15 279:19
141:4 164:2	285:13 287:19	115:19,21	133:3,22 134:9	379:23 380:12
172:4 237:1	287:22 288:18	159:23,24	134:20 426:9	383:2 412:1
323:15,17,19	292:8 304:22	160:2,11,13,15	428:7	413:19 414:3,5
329:9 357:12	305:1 307:2	160:17,24	Mills 7:8 255:19	414:8,11,14
379:13	309:20 311:10	161:4,11,13,17	mind 55:17	mistaken 190:21
mentioned	311:14 315:14	162:3 163:4,9	263:12	mistakenly
88:16 114:12	319:17 406:19	172:15,20,21	minute 86:21	217:5
120:3 130:6	407:6,7 408:7	173:1 195:1	363:8 397:11	mistakes 78:8
134:19 135:1	408:10 409:15	288:8 495:7,9	462:21	279:14 319:24
136:10 137:22	409:22 410:18	methods 161:20	mischaracteri	383:1
138:22 171:23	419:4,12	189:7,8 194:4	464:11	misunderstan
235:16 333:11	492:13,14	194:22 279:6	misclassificati	193:15 276:21
352:15 353:10	meta-analysis	293:10 384:2	61:3 78:12	misunderstood
358:21 397:2	6:21 9:14	404:10 475:8	87:1 93:3	451:8
417:7 447:17	145:18 146:2	504:9	94:16	misuse 217:19
449:19 455:6	225:22 227:7	metric 261:24	misclassified	mix 290:21
461:2	229:8 230:15	262:1,18	93:19,24	291:18 311:16
mentioning 24:9	230:16,17	263:10,21	misconception	311:20 320:17
70:21 133:1	232:11 236:8,9	267:13 343:4	294:3,11	mixed 237:5
300:11 352:13	236:12 270:18	344:16 368:1,5	296:23 298:16	319:15
352:22 382:10	284:20,22	368:7 376:3	298:19 300:5	mixes 398:20
	<u> </u>			

				Page 551
	75 14 76 1 0	.	1 210 12 211 22	450 10 400 16
mixing 69:10	75:14 76:1,9	Musser 9:6	210:12 211:22	450:12 488:16
289:15	76:10,12,23,24	426:20 427:1	215:7 226:16	498:8,12
MIZGALA 4:3	82:6,8,10 83:8	428:9	232:24 258:10	503:19 505:14
30:19 32:7	84:21 85:14,15	mutation 455:22	258:12 318:15	509:15 514:4
168:8 211:3,15	85:21 86:15	N	329:16 365:15	Newport 2:4
213:3 240:21	87:5 88:15	$\frac{1}{N}$ 5:2	366:12 385:24	news 185:7
241:1 295:17	100:19,21	naked 270:13	386:2 399:14	newspaper
439:11	129:15 130:8	name 11:3 12:5	480:2,22	185:8
Mm-hmm 61:11	247:21		needs 125:19	NHS 378:9
102:24 105:13	Monographs	12:6 14:4,7,8 41:7 287:21	194:15	NHSI 367:5
200:15 207:17	5:21		negate 362:17	NHSII 367:1,4
223:20 250:10	Montgomery	490:2,10	negative 24:11	Ni 453:18
304:23 342:22	2:14	napkins 354:1	183:4,17 184:2	nice 196:6
343:2 366:12	months 404:8,17	Narod 6:14	184:7,14 186:1	nickel 109:5
367:10 386:17	morning 12:2,3	180:13 185:16	189:21 197:22	nine 376:10
408:8 425:2	mortality 87:21	249:3 259:8	197:23 198:4,6	492:14
mode 323:12	Motion 67:19	260:6 261:18	198:12 371:10	no-no 320:5
447:2	76:16 80:14	267:18 318:9	371:12,18,21	node 123:12
model 129:4,12	144:8 163:15	318:15 329:7	372:12,14	nodes 123:9
129:12,13	206:5 356:14	329:14,24	381:15 443:4	non-aspirin
132:13 136:1	430:23 446:8	330:14 346:3	444:18 447:10	454:1
296:11,11	456:19	385:24	neither 203:1	non-diseased
models 130:11	move 54:15 95:9	Narod's 260:6	391:10 416:11	390:22
131:9	141:14 162:7	263:16 329:10	Ness 440:23	non-exposed
moderate 222:9	213:18 214:12	narrower 61:10	441:4	398:1
modest 247:2,16	214:14 297:23	National 446:19	never 22:1,7,12	non-perineal
271:3 357:23	300:13 401:1	nature 14:17	23:21 24:21	417:1
484:9	415:6 418:10	20:17 24:18	77:18 128:24	non-persuasive
moist 36:12	418:13	122:3 148:5	132:12 139:4	128:5 134:6
molecular 124:8	movement	190:17 200:8	178:17,18	non-significan
432:11,19	173:13	200:14 205:10	197:16 198:21	215:21 217:5
433:10,17	moving 495:12	226:16 250:14	202:14 238:9	236:3
435:2	mucinous	301:22 396:19	259:5 282:15	non-statistical
molecule 394:19	324:16,20	near 210:21	282:16 283:1,2	202:4
moment 43:16	409:5	nearly 458:8	287:18 289:3	non-statistically
120:17 515:18	multi-discipli	necessarily	341:23 344:24	216:5
money 113:11	450:12	123:2 299:11	368:3 373:8,14	nonconsistent
316:16	multi-district	306:9	423:24 437:15	183:5
monies 145:13	37:12	necessary 44:2	449:14 451:17	nonmalignant
monitor 504:1	multiple 66:19	392:12 518:4	459:3	9:11 467:24
monitors 118:21	277:9 278:12	neck 513:11	nevertheless	468:6,16,18
monograph	multitask	need 81:3	20:14	469:11
60:24 61:18	332:13	110:22 125:9	new 1:2,14,15	nonresponsive
62:9 63:5	multivariant	151:6 156:12	3:9,13 9:17	67:19 144:9
68:21 69:17,24	348:1,22	159:11 165:8	11:10,10 14:11	206:5 356:14
70:10 71:9	multivariate	190:1,13 205:4	169:14 227:9	418:22 430:24
72:4 74:22	354:21	205:6 209:3,9	228:2 301:6,17	446:8 456:20
	I		l	l

				Page 552
	l	l		
nonsignificance	73:15 74:16	object 24:1	173:4,14 174:4	318:5 319:8
204:20	82:5 105:4	26:23 27:13	175:21 176:4,9	327:12 330:7
nonsignificant	138:8 140:11	28:3 29:2,20	177:4,18 179:5	331:11 333:1
183:17 201:22	146:23 147:6	30:19 32:17	185:2 188:4	335:7 338:6
203:22 205:14	147:14,18	33:13 34:17,24	192:3,17	340:20 341:8
210:12 270:2	181:13 182:3	35:15 36:1	193:12 195:5	342:10 343:8
nonstatistically	229:7,11	38:22 39:5	196:18 197:4	343:12 344:19
204:17 296:18	230:21 251:23	42:3 43:22	198:13 202:7	345:11 346:5
298:20	293:18,20	44:19 46:2	203:13 204:12	346:16 349:5
nonsteroidal	296:8 316:12	47:2 48:7	207:1,12 211:3	349:20 355:12
455:11 459:17	317:23 328:5	49:17 50:14	211:5,15 213:3	356:20 358:11
nonsteroidals	329:17 330:2	51:2,19 53:4	213:5 215:3,9	359:1,10
460:12	361:22 384:20	55:22 56:11	216:6 218:4	360:16 362:10
normal 442:16	386:9 387:3,9	57:19 58:8	219:10 221:6	364:13 365:8
normally 154:20	387:19 410:3	60:5,16 61:24	221:21 223:4	366:6 369:7
NOS 435:4	466:8 487:8	62:17,24 63:21	225:3 230:10	370:18 372:20
Notary 1:17	493:17 497:16	65:16 70:12	231:4 232:15	375:20 379:20
517:14 520:23	numbers 9:7	77:4 84:14	234:16 235:7	381:7 382:23
note 350:16	93:18 198:22	89:21 90:22	235:13 237:24	385:6,19 386:6
351:13,17	207:10 260:17	91:24 95:4,20	238:20 241:13	387:5,15 388:6
416:22 417:14	290:6 331:2	96:12 98:8	242:2,13 244:1	388:14 391:7
notebooks	471:17	99:21 101:20	244:14 245:8	393:7 394:8,14
141:24	nurses 366:1,2	102:7 103:19	245:22 246:7	395:15 397:15
noted 11:14	Nurses' 256:18	104:13,23	246:22 248:3	398:3,23
87:18 141:24	311:8 344:10	106:8 108:12	249:7,22	399:19 400:3
518:11 520:11	363:22 365:21	109:7,15	250:11 251:14	401:9 402:2,10
notes 106:5,15	365:23 376:21	112:15 113:22	252:12 253:2	406:1 408:17
118:6,15,16	378:9 380:21	116:21 117:7	253:21 254:9	410:21 412:13
119:1,10	381:4,20	117:23 118:18	257:12,21	412:21 413:21
140:12 141:5	Nutrition 427:4	119:5 121:9	259:24 262:8	414:19 417:16
485:21 521:1	428:12	122:6,16	265:5 267:8	419:8,21
notice 1:14 6:6	NUTTER 3:3	124:11 127:20	268:13 272:24	423:17 427:19
102:11,18	NW 3:18	130:20 131:23	277:18 278:16	431:8 432:21
noting 351:9		136:13 137:2	279:2 282:11	433:6 434:1,19
notion 296:16	0	139:23 142:3	282:11 283:13	435:6 436:16
November 38:5	O'DELL 2:13	142:16 143:3	286:16 287:24	438:2 439:9,11
38:6 43:6	80:22 81:11	146:6 147:5,11	288:9,23	440:11 441:11
NSAID 448:1	167:19 169:10	150:17 152:7	289:21 291:4	441:24 442:10
452:11 454:2	208:7,12,17	153:8 155:2	295:15,17	447:4 448:3
456:1,15	458:17 462:13	156:3,14	296:2,20	451:5 452:21
NSAIDs 452:11	462:19,24	157:17 159:1	298:24 300:18	454:21 459:10
452:13 455:16	463:13 464:3,6	159:17 160:20	302:1 303:12	460:3 462:5
455:23 457:11	464:13	161:7,24	304:14 305:16	464:20 468:8
459:7,7 460:16	O'REARDON	162:19,24	305:22 307:7	469:2 470:15
461:16	2:7	165:11 166:2,9	312:2,15	473:14 475:23
NTP 485:17	oath 11:17 15:7	170:16 171:12	315:15 316:6	477:20 480:5
number 73:13	15:9	172:1,7,17	316:22 317:18	481:2 482:18
L	ı	<u> </u>	ı	

Dage 553

				Page 553
40.4.10.40.7.4		15041611	1	
484:19 485:4	occasions 464:8	15:24 16:11	321:19 324:22	oncology 39:10
487:22 489:9	occupation	21:15,24 32:24	328:19 334:18	176:18,22
491:5,17	27:11	42:20 72:8	334:20 337:21	178:4,14 179:3
492:24 494:11	occupational	74:3 75:5,10	337:22 342:1	179:23 180:11
496:7,16	27:17 28:6	75:13 77:2	343:15,17,21	181:4 249:15
497:23 499:8	60:13 61:13,16	83:15,24 87:2	345:16 348:14	456:11,14
500:2,13,21	61:22 62:15,22	87:11,12,17	350:7,11,14	507:6
501:8 504:16	63:3,17 64:3,9	89:15 96:21	351:24 354:22	one-sided 388:3
505:6 506:21	65:5 67:7 68:1	107:9 111:13	355:4 363:6,9	one-time 366:21
507:23 508:16	68:19,20 70:1	119:1 126:8,14	365:4 366:17	367:3
509:23 510:18	70:11,18 71:1	127:16 129:18	366:17 367:13	ones 15:4 55:13
512:3,22	80:5 86:5	134:24 138:22	368:11 371:16	78:11 117:11
513:12 514:10	87:22 88:8	143:1,18	372:15 374:8	152:24 259:23
514:16	95:13 98:15	144:24 147:22	375:13 377:3	270:9 312:21
objecting 30:23	326:16 330:10	150:21 155:11	377:19 378:2	312:23 325:24
objection 16:23	331:23 332:7	156:23 159:21	383:4,12,22	409:3 509:10
17:12 18:1,11	335:17	165:17 171:5	384:5 386:3	509:11
19:1,19 20:19	occupations	172:13 173:23	388:2 391:1	onus 205:7
25:15 26:2	26:18	176:16 180:1	396:10 400:24	262:19
27:3 31:5 32:7	occur 65:13	180:20 181:7	402:8 403:4	op 185:9,11,12
33:7 66:5,5	133:4,6,23	181:23,24	404:22 409:12	200:24 329:10
67:18 70:4	occurred 240:8	188:24 191:1	416:3,16	489:20
124:23 131:20	odds 192:14,21	192:8,22	418:12 420:6	open 14:18
190:24 206:4	206:21 241:23	197:21 199:17	421:15 433:1	107:7 173:11
213:16 233:1	243:23 244:8	207:8,21	436:4 438:13	299:20 420:8
341:4 356:13	244:11,17,22	212:19 213:11	449:18 452:10	423:1
364:5 418:21	245:21 253:12	214:1,14	453:3,5 454:9	open-ended
446:7 456:18	269:13,22	215:14 216:16	469:6 475:18	139:7
456:19 466:22	270:10 271:1	216:19 218:23	476:12 477:1	opening 100:18
objections 65:21	311:22 325:20	220:7 222:1	482:8 484:3	operate 259:15
68:5 81:2,16	329:17 354:16	223:24 227:21	485:19 486:1	Operation
103:5 107:16	371:18 378:14	231:14 235:19	486:24 487:2	428:11
objective 262:1	408:13 443:23	240:12 241:18	503:18 515:12	operations
262:5	offense 40:18	243:4,10,15	515:17,19,24	427:3
observations	offer 44:2	245:14 246:12	516:2	opinion 21:3
475:4	138:12 212:8	253:7,16	old 229:9 372:7	43:12 44:2,14
observed 93:12	offered 60:24	255:12 256:13	omitted 127:17	44:22 46:11,16
204:3	308:4	258:2 259:3	once 63:2	47:13,15,20
obstetrics	oh 72:9 83:13	268:9 270:14	193:24 198:10	48:1,17 49:6
488:15 490:1,1	135:6 151:13	274:21 279:17	276:1 332:12	60:13,21 61:12
490:11	153:2 175:13	282:23 287:4	368:1,2 370:6	61:15 62:4,21
obtained 119:17	180:9 219:18	287:18 296:6	389:7 495:24	63:3 64:7 69:6
obvious 370:22	250:24 377:13	298:5 301:4,18	oncologist 12:11	69:15 70:15,22
423:1	378:2 415:20	302:8 304:3	12:14 126:20	78:18 86:12
obviously 213:8	429:24 441:13	306:13 308:20	176:17 242:10	89:23 91:19
372:2	465:12 487:2	309:7 310:13	oncologists	94:23 95:10
occasion 243:17	okay 15:4,5,23	312:10 317:3,8	136:22	97:3,4 99:5
occasion 273.1/	UNAY 13.7,3,43	512.10 517.5,0	130.22	71.5,7 77.5
L				

				Page 554
100.1 2 100.20	52.2 0 69.19		120.2 145.0 14	405.16.409.6
100:1,2 108:20 108:22 109:2,3	52:3,9 68:18 69:3 90:1	outcomes 316:13 417:6	138:2 145:8,14 149:8 151:11	405:16 408:6 409:21 410:19
108.22 109.2,3	92:18 95:19	outlined 251:24	151:18,22	410:20 413:12
, ,	107:22 108:2,4	outmed 231.24 outmoded	153:5 165:3,23	419:6,18
109:21,24 116:9 162:18	107.22 108.2,4	293:12	174:15,20,23	420:16 425:14
164:4,22	115:14 117:17	outside 19:9	174.13,20,23	431:19 432:9
*	117:20 123:15	46:6 62:4	176:8 180:12	431:19 432.9
165:10,15,16 171:8,19	123:21 138:17	66:23 67:3	182:2,9 189:19	432:12,20
173:23 174:7	146:17 155:13	69:14 80:4	206:8,12	443:24 444:20
174:11,21	155:20,23	86:8 98:14	220:24 224:21	446:18 447:12
174.11,21	156:1,13 157:3	100:11 446:1	241:6 243:11	447:20,24
	160:3 161:5,17		245:6,16	448:2 449:9
175:17,18,24 176:2 188:7,11	172:14,16	outstanding 14:3	246:15,20	450:5,14
188:15 191:14	· ·	ovarian 6:13,23	248:12 249:19	451:14 452:7
191:19,22	173:3,19 211:20,22	7:7,10,13,22	252:10,17	451:14 452:7
191:19,22	211:20,22 212:2,5,10	8:7,9,12,15,17	252:10,17 253:19 254:5,8	452:16,20
203:11 211:14	253:14 271:8	8:7,9,12,13,17 8:20 9:13,15	255:19 254:5,8	453:17,23
230:4,9 235:12	304:12 307:6	9:18 13:2,11	265:11 266:17	455:5,14,24
241:21 242:6	426:5 491:15	14:14 17:11	267:5 276:15	456:16 459:24
246:10,13,18	492:22 497:22	18:19 19:18,22	278:14 280:17	461:23 462:3
247:8,18	492.22 497.22	21:4,16,17,20	310:2,21	464:18 470:7
249:13,17	opportunity	21:20,21 22:8	310.2,21	476:16 479:15
252:20 260:6	146:15 159:13	22:13 23:1,4	311.12,23	479:23 480:16
261:18 263:16	216:21 297:8	23:10,21 24:23	317:9 324:11	481:24 482:6
265:4 267:17	298:10 517:9	25:4,8,10 28:9	325:13,18	484:15 487:1,7
268:9,21	opposed 113:8	28:19,22 30:9	326:5,6,11,13	487:13,21
285:21 286:4	197:8,12 329:8	30:16 31:16	326:16 327:1	488:17 501:3
288:22 308:4	467:19	32:4,13 37:23	327:10 331:8	508:11 515:9
309:22 310:9	opposite 50:17	43:14 44:4,16	331:16,18	ovaries 65:9
312:11 315:8	88:22 91:17	44:23 46:12	332:23 334:11	130:18 131:22
318:8 327:4,7	247:8 423:11	56:24 60:15	334:23 336:3	130:18 131:22
327:22 328:10	optimal 388:12	61:14,20,23	336:19,23	138:11 174:3
329:11 332:4	388:18	62:16,23 63:14	337:4,15,17	390:1,2,3
360:9 371:21	options 475:12	63:18 65:1,6	340:1 347:5	391:5,13 422:4
395:11 401:20	Oral 6:6	65:10 67:23	351:5 353:17	422:22 423:16
419:5,20	order 45:21	69:12 70:1,11	354:17,22,24	426:1 427:18
421:24 422:5	154:24 270:7	70:19 71:2	355:7,10,11	432:1 438:17
422:22 441:18	458:12	77:15 78:21	356:19 357:9	439:4,23
441:19 442:6	organ 394:20	79:19 86:22	357:17 358:1	441:22 442:8
447:18,23	organization	88:24 89:4,6	367:7,8,16	442:15 445:11
448:6 452:6	494:10 507:9	90:2,4,7,9,14	369:2,5 370:7	445:24
464:17 472:13	509:20	90:21 91:7	372:11 374:17	ovary 87:20
479:13 494:4,7	original 91:18	93:11 95:15	378:12,13,18	89:20 95:12
513:15	217:16 423:21	98:18 100:5	378:20 380:3	128:11 130:4
opinions 37:17	518:15	101:17 113:18	385:13 386:1,4	390:15 396:21
37:18 44:9	outcome 227:16	116:10 120:7,8	390:21 393:4	400:22
45:21 49:11	412:12 417:4	120:9 124:10	394:5 405:9,12	overall 311:6
				<u> </u>

_				Page 555
279.10.202.5	70.4.21.74.2.5	<i>EE</i> .0. <i>E</i> 0.21	10.22	(2.7
378:10 392:5	72:4,21 74:2,5	55:9 58:21	papers 49:23	63:7
479:21 overcome 314:7	76:23 82:5,13 83:5 84:16,18	73:13 121:15	53:2,24 55:2	particle 393:23 394:19
overcome 514:7	′	121:16 122:4,8	56:19,23 57:2 57:5 61:17	
217:13	84:23 87:5 93:5 116:12	122:15 123:14 123:20 124:7	62:8 88:18	particles 122:12 123:11,11
	125:8 126:18	134:13 151:3	91:12 111:7	123:11,11
overlap 56:5 230:18 231:21	127:4,7 133:15	171:11 180:2	118:23 138:8	128:14 133:3
233:17 234:3	134:8,9 135:7	180:10,15	139:13 140:4	133:23 134:10
234:14,22	140:9 141:8	181:1,5 182:17	149:6 152:18	391:11,24
234.14,22 235:5,12,17	160:9 181:10	184:10 185:7	258:18 261:21	392:2 400:22
236:2 321:12	181:11,21	194:21,23	267:4 297:10	430:18 431:17
322:10 323:23	182:20 187:18	194.21,23	352:8 489:22	437:3
409:15 410:3	202:20 217:1	200:6 201:16	498:19	
oversimplifying	217:10 224:11	202:1 203:16	paraffin 400:1	particular 31:23 135:18 156:24
99:23	224:13 256:4,6	207:22 213:9	paranni 400.1 paragraph	490:13
99:23 overstate 395:5	258:23 261:5	215:8 219:4,9	74:21 87:14	particularly
Ovulation 7:21	271:14,15	219:17 223:15	127:8 256:7	23:8
ovulations 487:8	274:4,8,10	255:1,19 256:5	258:24 275:16	particulate
owned 301:16	274.4,8,10	263:17 271:6,7	325:6 379:3	135:15,18,20
oxygen 435:12	325:4,5 334:3	271:22 273:22	380:13 407:14	423:3 438:14
435:20	334:16,20,21	275:4,14	416:19 443:19	particulates
oxytocin 128:16	350:15 357:14	285:20 287:10	469:7	425:16
438:21	358:2 365:20	292:15,22,24	paragraphs	partners 242:9
730.21	367:24 374:13	295:1,6 298:15	139:4 166:19	504:7
P	374:14,18,19	318:9 323:7,21	456:23 457:15	parts/genital
P 2:13	375:2,6 377:5	323:23 325:7	457:20 458:9	376:6
P-value 202:16	384:19 407:8	329:14 347:2	465:20	pass 39:21
218:7,15	407:10,14	350:18 394:1,2	Pardon 156:9	pass 39.21 passage 173:12
P-values 217:22	415:15,22	397:7,11	468:13	path 449:24
218:10,11	416:17 420:10	398:16,16	Park 3:9	path 449.24
P.C 2:12	424:23,23	400:14 407:2,4	part 51:5 68:11	78:14 94:7
p.m 239:16,20	425:2 429:17	409:22,23,23	77:2 78:17	pathology 94:11
343:19,23	429:18 430:3	411:8 416:18	81:19 87:3	94:13 449:22
348:12,16	430:13,13	417:19 421:9	107:2 143:8,13	patient 14:8
421:16,21	442:23 443:1	428:6 432:3,18	143:14 146:8	19:4 26:9 27:2
453:13 473:10	443:17 446:11	433:2 434:13	153:16,20	28:11 35:23
473:24 486:2,7	471:16 476:9	434:22 435:9	158:13 251:5	36:7 128:16
516:5,8	478:4 519:4	435:24 437:20	251:10 271:8	338:10 450:12
p53 448:24	521:2	441:9 443:8,10	284:10,12	450:14 479:4
451:15	pages 48:11	443:12,16	289:6 304:13	479:20 480:21
page 5:13,15,18	71:23 428:18	446:21 447:9	327:16 384:16	482:13 483:11
5:20 6:5 7:5	430:6 471:19	447:10,11	393:13 427:14	483:24 485:9
8:5 9:5 10:6,9	520:6	459:23 462:2,8	429:9 448:21	501:2,5 502:12
10:12,15 16:11	paid 112:9	468:23 471:12	participants	506:19 511:15
40:20 41:1,11	113:11,19	471:16 486:10	240:4 330:3	patient's 14:7
45:16 64:22	114:4	486:17 493:4	387:4,10,11,12	26:14
65:17 71:21	paper 50:21,22	495:11 498:18	participated	patients 9:11
	1 -1		1	
		_		

				Page 556
25.2 6.21	1 . 420 10	125.50		202.12
25:2,6,21	pelvis 430:19	percent 25:5,9	344:24 347:4	202:12
26:17 27:7	431:19	25:10,11,21	353:24 367:15	ph 1:20
225:24 233:23	penalty 15:7	149:23 187:4	422:3,21	Ph.D 427:1
239:1,5 244:23	pending 168:22	187:21 193:21	423:15 425:16	428:9
272:17 313:22	210:2 418:17	193:23 194:8	427:18 439:3	Ph.Ds 153:19
342:3 356:12	419:1 454:5	196:22 197:14	445:22,23	pharmaceutic
367:7 405:14	Penninkilampi	202:5 205:20	period 19:17,23	84:3
418:4,20	8:19 171:10,20	234:2,4 235:5	20:11,15 21:3	phase 452:3
455:21,23	171:24 227:9	245:15 248:19	21:6 261:22	phenotype
466:12,16,17	229:23 230:1	248:20,24	266:15,15	19:12
467:8,12,17,19	231:20 233:9	249:6 290:14	325:13 328:11	phrase 19:17
467:24 469:14	234:7 236:16	318:21 328:22	332:3,5,17	20:6 358:18
483:6 499:13	236:17 237:10	329:2 349:12	334:24 336:2	407:12
500:11,24	237:19 238:7	349:13 371:3,3	336:17 337:7	physically 105:9
501:17 506:9	319:5,11	372:8 376:23	337:23 345:19	105:12
506:12 507:21	320:21 321:10	378:16,16,20	350:2,4,6,15	physician 307:1
508:14 509:1	322:3,12,15,19	386:23	351:3 352:14	pick 151:21
510:2,7,16	322:21 323:4	percentage 25:1	369:3	279:10 281:21
512:16 513:1	360:4 361:13	150:2 234:9	periods 21:12	313:3 314:9
513:11,20	362:7 382:16	235:11 323:12	325:14	352:16 388:20
514:5	383:5 407:2,4	381:13,14	peristalsis	picking 84:18
patients' 303:1	409:4,23 411:8	perception 35:5	437:21,24	231:10 329:3
PAULA 2:8	411:17 412:2	perfect 388:9	peritoneal 79:20	picture 307:19
pause 132:11	415:15 416:15	504:11	86:23 93:9,17	piece 68:8
348:13 382:6	416:18 417:9	perfectly 380:16	423:4 425:17	200:24 261:18
453:11 473:12	459:23 460:9	475:7	perjury 15:8	489:21
pay 60:9	461:11 471:4	perform 153:21	persist 293:15	pieces 48:16
payments 265:9	488:6 489:4	performance	Persistent 7:16	pig 129:12
Pbrown@bho	494:14	14:19 20:12	292:22	pigs 130:10,10
2:10	Penninkilamp	performed	person 30:23	pipes 266:2
PCPC 3:20	230:15	149:3 249:20	34:7 41:5	piqued 50:20
peer 299:16	people 32:20	412:4 413:9,14	81:15 90:12	53:20 461:6
382:13,17,20	35:5 81:9	444:9,13	158:9 178:22	piquing 48:9
383:5 470:18	100:14 149:10	perineal 6:22	179:15 195:8	Pisano 168:6
peer-reviewed	214:19 215:21	7:6,9 8:12,17	399:8,9	place 28:23 29:9
184:10,19,24	235:24 254:16	84:7 120:8	person's 157:14	29:13 128:14
220:21 247:7	262:22 265:14	134:2 220:24	157:16	217:24 218:7,8
254:3 257:5	265:19 266:16	224:19 236:20	personal 70:22	218:12,14
267:3 273:7,14	273:19 290:16	347:9 348:20	341:12	289:16 321:21
298:15 299:7,8	320:17 321:11	348:20 378:11	persuaded	444:15 461:19
299:10,13	326:10 341:13	378:19 396:12	129:5	placed 134:21
300:12 350:18	369:21 395:3,5	416:5 417:4	persuasive	135:16 500:9
401:5 439:19	396:5 400:12	420:17 425:24	131:5,10	places 233:21,24
440:6,17	402:7,9 424:2	432:9 448:9	267:24	289:14 298:17
443:16 459:5	438:8 445:23	perineum 130:2	pertains 90:20	plaintiff 292:14
470:5,13	470:24 479:14	130:13,16	246:20	plaintiffs 2:16
pelvic 487:14	490:12 498:23	131:19 330:13	pervasive	210:3 473:18
pervic 40/.14	770.14 470.43	131.17 330.13	per vasive	210.5 4/5.10
L				

				Page 557
plaintiffs'	Plaza 2:4	264:18 266:19	438:20	13:2,11 16:13
126:19 127:18	please 11:17	279:17 280:13	positions 465:13	16:15,21 22:3
129:20 130:15	12:4 16:5	347:13,24	positive 87:21	22:8,12,20
132:10 136:21	57:23 74:10	349:18,19,22	149:22 150:8	23:1 27:8
140:5 149:5	108:8 126:9	354:2 379:9	183:2,15 184:1	28:23 29:6,9
155:23 157:4	138:23 146:12	380:17 391:15	184:6,14 186:1	29:13,19 30:5
162:8 172:14	146:24 152:9	392:20 400:6	189:13 193:9	31:17 32:15
173:2 208:1,16	159:23 163:11	400:10 410:10	193:16,19	33:1,6 34:21
planning 125:14	163:12,23	427:23 428:2	194:6,7,14	35:12,23 36:19
144:1,12	166:12 167:17	438:10 439:8	195:11,16,18	37:11,23 38:18
145:10	170:18 171:16	445:17 446:12	198:1,3,4	44:15 56:24
plausibility	188:8 190:24	515:20	220:23 259:9	84:12 96:9,10
116:6 162:15	195:19 233:1	pointed 392:16	260:10 270:16	96:22,24 97:24
164:14,18	246:16 253:23	463:7,17	285:11 313:3	98:5 99:8
165:9,22 308:3	291:15 306:17	pointing 279:15	324:3 370:12	103:18 108:18
340:2 391:17	343:18 442:2	463:21	370:13,14,16	108:24 109:4
394:23 395:9	443:17 457:1	points 118:10	370:23 371:12	109:13,22
401:2 403:9	458:14 462:13	120:11	371:24 372:2	113:17 115:6
430:14 431:14	463:16 466:23	polarized	372:12 381:14	120:9 124:9
432:8 437:7	472:16 516:3	399:14	420:15 484:10	145:3,7,14
460:15	518:3,8	policy 203:5	497:15 499:6	154:16 170:7
plausible 140:6	pleural 9:11	polite 163:23	possibility 93:9	174:2,14,22
174:1,13	465:2 466:10	169:5,17	93:13,16	175:1,6,9,15
263:19 393:5	468:1,6,17,18	polycystic	possible 13:22	224:20 245:17
394:6 395:20	469:11	487:13	95:8 129:1	248:2 252:9
401:7,24 422:1	Pleurodeses	polyposis 456:6	224:20 228:4	253:18 254:5
422:19 423:7	9:10	pool 229:17	252:24 253:1	267:4 272:4
423:12 427:16	pleurodesis	pooled 225:20	272:3 333:10	276:10,14
436:13 437:12	448:16 464:19	229:8 408:10	363:2 400:11	280:16 310:1
439:22 440:7	464:24 465:1	408:12 453:18	421:5,7,12	310:21 311:12
441:6,20 445:5	465:23,23	poor 285:8	422:11,14	316:4 336:13
492:17	466:5,9 467:24	poorly 308:12	469:13	336:18,22
play 196:11	469:10,18	308:14,16,17	possibly 52:12	337:14 344:11
252:22 253:11	plus 114:11	popular 490:8	201:11 277:9	345:19 346:15
253:20 254:7	307:24	population 30:3	278:2 324:14	347:4,15
257:9 258:3	pneumothorax	83:19,22,23	419:24 420:2	353:16,23
259:21 261:6,8	469:12	84:5,13 158:7	502:8	367:15 376:5
261:13,14,17	point 37:5 99:4	355:17 367:1,5	postmenopausal	378:11 380:3
263:20 267:6	102:21 109:23	373:21	383:16	384:22 391:4
267:15,19	127:2 129:23	populations	potential 151:20	394:3 404:6,16
268:2,6,10	158:15 159:23	82:15 233:21	289:18 352:5	408:6 409:20
273:9 277:10	160:4,12	311:7 381:17	425:15 487:19	422:2,20
313:18 314:23	196:16,20	portion 30:3	potentially	423:14 427:17
315:4	197:2,13,17	429:2	338:3 487:15	442:7 447:20
played 263:13	202:18 233:16	pose 169:13	488:2 510:24	447:23 478:10
277:2	239:11 261:23	posited 267:12	powder 1:5 7:12	478:12,17,22
211.2	237.11 201.23	Posited 207.12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.,0.12,1,,22

				Page 558
			<u> </u>	
480:23 481:21	250:2 261:1	255:9 277:4	122:20 140:19	391:4 394:4
482:6,11,15	355:2	320:22 357:21	151:4 159:6	408:6 480:14
483:12 487:15	pregnancy	479:11	248:11 270:21	481:6,22
491:4,14,16	487:9	prevalence	319:23 332:18	483:17 484:1,4
492:21 496:15	Prempro 243:18	248:1,7 260:13	427:7 430:4	484:5,13
497:21 499:5	244:11,20	prevent 37:4	495:17 513:4	497:15 498:15
503:16 504:14	preparation	455:19 456:8	problem 72:22	501:12 502:10
505:4 507:22	50:4 58:17	456:10 459:18	78:5 202:13	502:13 505:15
508:15 510:17	111:22 113:2	460:18	226:15,21,21	506:13
512:19 514:9	496:13	preventing	226:23 272:2	production 10:8
515:8,13	prepare 37:18	444:10	314:8 319:7,10	110:9 121:1,6
powders 84:7	56:2,21 59:8	previous 224:14	319:11 320:23	productions
power 318:21	prepared 56:9	previously	321:14 339:12	63:8
329:23 330:18	60:3	417:6 428:15	389:11 393:13	products 1:5,6
348:9 502:17	preparing 59:16	492:19	498:8	9:21 13:2
powered 325:20	59:20	primarily 307:5	problematic	16:13,16,22
powerful 266:22	Presbyterian	primary 79:19	80:7	22:3,8,13,21
455:18	301:6,17	84:4,8	problems 91:14	23:1 27:8
practice 12:16	prescribe 37:1	Princeton 3:13	198:17 309:15	28:24 29:9,13
12:17 25:23	243:17,20	printed 110:12	309:19 313:15	29:19 30:5
35:3 78:19	presence 132:7	printout 302:16	319:16	31:17 33:1,2,6
153:16 263:7	132:18 170:8	prior 13:20 39:4	proceeded 42:8	34:21 35:12,23
283:20 284:21	393:10,14,17	39:17 42:5	proceeding	36:19 38:19
288:18 304:2,9	393:19,22	46:9 59:4	102:19	44:15 84:2,12
306:5 307:2	394:19,24	64:17 66:2	proceedings	96:10,11,22,24
352:10 427:2	400:21 432:1	124:5,15,18	145:2	98:6 100:21,22
practices 1:6	435:13	125:2 139:20	process 15:3	108:18,23,24
28:13 204:4	present 4:8	169:1 181:2	115:13 118:13	109:4,14,22
practicing 12:13	170:12,21	230:8 233:7	118:17 144:23	113:17 115:7
303:23	184:23 224:17	234:14 256:19	209:7	128:19 145:3,8
pre-World 63:9	256:21 273:17	327:14 332:23	processing	145:14 154:16
69:9	448:18,21	358:24 404:8	400:2,7	170:8 174:2,14
preambles	450:11 451:10	404:17 443:20	produce 103:9	174:22 175:2,6
402:24	475:19,21	515:4	465:24	175:15 245:17
precancer	507:13	private 350:11	produced 51:11	248:2 253:18
451:12 452:1	presentation	376:6 445:2	51:18 55:21	254:5 345:19
precancerous	24:19,20	privileges 301:9	57:14 58:19	346:15 347:4
452:3	presentations	301:10,13,14	103:1 107:10	347:15 353:16
preceded 44:24	22:24 23:19	301:19	107:18 118:10	384:22 409:21
46:13	24:22	probability	154:7 186:14	422:2,20
precise 357:3	presented 54:21	272:20	318:10 463:24	423:14 427:17
precisely 379:8	164:4 179:4	probable 253:1	product 99:9	442:7 447:23
precursor	219:5 474:3	253:5,8	101:7 118:12	478:10,12,17
449:12 451:13	pretty 37:1	probably 13:18	144:15 251:3,4	478:22 479:3,5
predefined	38:20 39:4	25:10 36:15	266:3 267:5	480:23 481:11
197:24	41:17,24 57:7	38:4 39:13	296:10 310:1	482:12,16
predominate	57:8 254:15	59:22 106:20	316:4 367:15	483:12,23
Prodominate	37.0231.13	37.22 100.20	310.1307.13	103.12,23

				Page 559
404 10 405 2	154040540	150 2 12	242 4 204 0 12	(1.0.(2.20.24
484:18 485:2	154:24 354:3	152:3,12	243:4 304:9,12	61:9 63:20,24
491:4,14,16	442:18 446:5	176:21 317:24	329:23	64:2,24 66:20
492:21 495:22	prove 205:8	380:22 381:2,5	pursuant 1:13	67:16,22 70:8
496:4,15	393:23 396:24	381:6,22	pursue 210:4,4	71:22 75:23
497:10,17,21	433:19 434:7	publicity 272:3	put 27:11 81:17	76:8,15 77:22
498:2 499:6	437:9 438:9	275:12 276:8	102:1 187:13	80:10,17,21
500:10 503:16	477:7	278:14 279:21	221:15 222:16	81:18,22 82:4
504:3,15 505:4	proven 174:19	279:24	225:19,23	86:2 91:21
507:22 508:15	369:13 445:17	publish 144:5	239:8 285:8	98:4 101:12
510:17 512:19	456:15 513:3	281:9	290:10,12,15	105:2 124:14
514:9 515:9,14	proves 99:15	published 22:7	290:17,20	131:15 136:5,6
professional	174:17 280:9	22:12 44:17	291:1,17 303:7	139:10 159:16
1:16 242:18	provide 103:12	46:24 105:21	303:8 314:6,16	159:20 163:18
507:8 509:19	123:14 143:23	115:10 153:1	321:20,23	164:13 167:8,9
517:13	144:1,12	180:11 184:24	390:16 406:11	167:14,17,23
professor 287:2	146:14 171:6	200:5,7 240:3	436:24 438:19	168:2,4,18,21
prolonged	171:17 173:24	241:5 247:7	438:19 445:22	169:4,14,22
444:12	174:7,12 220:8	249:14 254:3	445:23 499:15	170:2 171:3
promote 173:13	231:1 235:5	287:3 298:15	502:9 503:14	175:10 182:14
prone 137:17	293:22 367:14	299:9,12,18,22	puts 77:20	189:24 190:13
226:9,10	432:18 433:10	300:4,9 363:23	262:18	190:17 191:2,5
307:14	433:14 504:3	382:13,17	putting 194:3	191:6 197:1,7
pronounce	provided 44:17	394:2 444:3	231:22 295:11	210:2,3 212:15
454:10	47:1,8 54:22	459:5 470:5,19	319:16 336:12	213:12,15,18
pronouncing	107:20 108:1	490:21 493:10	500:15,19	218:18,21,23
322:23	117:5,12 347:3	494:3	501:6,17	227:19,22
proof 254:14	433:20 478:8	publishing	pyramid 284:17	228:7,9,14
255:2,8,11	478:14,20,24	299:24		232:18,23
396:8,11,11	provides 177:16	PubMed 119:22	Q	237:16 246:16
425:14 434:9	393:5	120:3,23	Q-I-A-O 454:11	250:15 253:24
437:2 442:14	proving 410:12	151:10	qualifications	257:4 290:5
proper 66:4	433:14	pull 50:21 54:14	21:24 69:1	296:7 300:8
192:20 346:12	pseudoscience	54:15 55:7,8	quality 37:2	308:19 314:12
proposed	390:4 402:13	363:4 441:2	196:8 490:6	316:19 328:5
433:13,15	402:16,18	442:22 501:15	495:10	330:11 332:21
propounded	PTI 4:6,6	pulled 53:21	queried 367:1	354:6,16 357:3
520:9	public 1:17	pulling 58:21	question 15:21	365:2 367:6
prospective 8:6	144:20 154:19	466:3 500:16	16:7 21:11	371:22 376:4
100:9 101:1	272:7 350:10	Purdie 7:23	23:18 24:4,15	384:18 387:13
228:21 229:3	504:21 517:14	232:1 233:12	26:17 30:13	393:16 401:15
256:17,17	520:23	333:13,16	31:10,14,19	401:22 411:2
360:21 379:4	publication	334:2	32:1 34:20	412:24 413:1,8
380:2 381:21	124:20 181:2,6	purists 67:5	35:9 36:5	413:15 415:1,3
382:7 493:12	363:19,21	purpose 190:21	41:13,19 42:6	418:17 419:1
protecting	publications	298:1	42:17 44:3	422:7 423:21
504:21	22:16,20 28:17	purposes 20:15	45:17 46:14,15	431:3 442:19
protective	28:21 151:9	36:21 123:21	46:18 58:3	454:5 456:24
	<u> </u>	<u> </u>		

				Page 560
457 470	240.22	47.11.14.40.01	420.22 421 21	167.10.212.5
457:4,7,9	240:22	47:11,14 49:21	428:23 431:21	167:19 212:5
458:2,4,10	random 241:24	50:9,10,18,21	432:15,16	226:3 236:8
465:5 466:21	390:17	52:8 53:15,22	433:1 440:20	254:13 255:7
467:2,4,6	randomized	55:7,13,14	441:8 444:22	284:24,24
482:14 489:10	293:21 305:8	62:5,7 64:7,8	444:23 451:19	334:14 337:13
489:15 498:13	range 187:20	69:16 72:11	460:24 462:1	353:13 389:18
questioning	193:23 271:3	73:20 76:11,12	465:21 469:19	390:6,19
27:20 52:19	ranks 294:4	82:5 83:24	469:20 472:12	391:19 399:16
321:7 330:17	rapidly 293:9	84:9,19 89:9	487:16 490:16	410:15 449:11
331:14	rappel@seyfa	90:13 118:15	504:10 509:6	456:2 465:15
questionnaire	3:19	119:12 120:24	510:13 513:24	502:20
344:13 366:22	rare 317:9	121:2 123:24	517:9 518:3	Realtime 1:17
367:3	rarely 316:17	124:6,20 125:4	520:5	517:14
questionnaires	rarer 260:16	137:19 138:8	reader 160:1	reason 34:7,11
265:22	rarity 325:17	140:16 143:18	reading 50:7	132:11 164:6
questions 10:14	Rasmussen	145:17,22,23	53:19 55:3,6	198:16 244:13
16:2 26:11	446:20 447:8	146:23 147:16	58:22 59:5	266:24 284:18
57:3 139:7	rat 129:12	170:24 177:12	73:2 75:11	311:2 320:19
159:14 162:11	rate 60:9 112:4	180:15 182:10	83:7 84:20	336:15 348:10
167:11 169:1	113:5 115:24	182:11 183:19	111:10 127:3	353:23 362:16
169:12 173:22	272:18 320:12	184:3 201:23	141:7,17 212:9	373:11 401:11
199:9 206:1	rates 248:11	201:24 203:7,9	215:7 265:16	448:6 457:14
216:15,21	ratio 192:14,21	203:15,20	274:9,19 297:3	459:15,16
258:14 298:6,7	241:23 243:23	204:8 211:21	314:17 350:22	465:8,11
298:10 307:17	244:8,11,17,22	212:13 215:7	350:24 407:9	466:17 467:3
328:3 342:6,7	245:21 249:6	215:12 217:7	446:12	467:13 483:18
353:13 354:13	325:20 329:18	220:3 224:22	reads 45:17	488:1 498:6
366:18 384:16	354:17 371:19	224:24 253:14	64:23 87:14	505:12 514:19
458:16 465:14	378:14 443:23	254:3 259:17	181:12 217:2	518:5 519:6,8
478:7 515:23	ratios 181:14	262:3 272:11	224:12 256:13	519:10,12,14
520:8	182:4 206:21	274:20 276:16	271:22 293:8	519:16,18,20
quicker 72:5	253:12 269:14	277:5 287:18	302:22 334:4	519:22,24
quickly 106:3	269:22 270:10	294:24 297:10	446:15 487:1	reasonable
159:6	271:1 311:22	297:11,11,17	503:24	90:12 158:9
Quit 215:16	408:13	297:19 302:19	ready 59:12	334:12 426:4
quite 61:6	rats 130:9	306:15 309:5	274:22	reasonably
quote 195:23	raw 178:17,19	313:24 334:14	real 226:19	158:24 280:10
329:7 439:2	reach 91:9 130:3	346:24 351:7,8	449:5	334:23
quoted 493:5	189:15 194:15	358:3,5,6,20	realize 48:11	reasoning
quoting 60:23	197:24 198:2,8	359:23 365:15	realized 122:22	164:10 258:8
329:8 382:8	260:17	366:9 374:6,10	314:7	reasons 99:13
	reached 74:22	378:22,23	really 20:10	216:9 269:23
$\frac{R}{R}$	75:14,24 85:15	380:15 397:6	59:19 61:4	423:2 460:8
R 2:8 519:1,1	195:17	398:15 402:20	99:24 100:2	reassurance
radiation	reactive 435:12	406:14 417:14	115:20 135:24	504:19
335:16 337:21	435:20	418:1 420:20	136:6 138:1	REATH 3:7
raise 205:24	read 31:5 41:12	421:4 427:22	144:16 166:24	recall 86:24
	l		I	I

				Page 561
1061110001	450 15 505 01	140 10 140 0 6	155 2 150 22	100.40
196:11 198:21	459:17 507:21	142:12 143:2,6	157:3 159:22	relating 108:4,9
198:21 199:1	recommendat	146:3,14 152:4	163:24 171:9	142:8 162:14
226:10 251:22	455:21	172:5,10	172:5 187:19	relationship
252:5,11,16,21	recommendat	313:17 347:18	237:22 241:3,5	46:12 70:24
253:20 254:6	495:18	348:4 424:19	243:5 267:4,6	100:5 316:3
254:22 256:8	recommended	referenced	287:7,19,22	393:24
256:13,20	456:9	49:23 50:11	308:21 334:5	relative 192:10
257:3,8 258:3	recommending	53:13 155:14	350:14,17	192:15 193:2
259:6,20 260:3	456:14	156:24 471:13	405:21 409:20	245:21 253:13
260:14 261:5	record 11:3,15	references	411:7 437:20	269:14 317:11
262:1 263:10	12:5 15:23	107:19 116:12	446:6 454:11	317:15 318:1
263:20 264:18	81:17 126:12	116:14,15	454:12 462:2	348:1,22
267:1 268:10	126:15 169:16	119:17 162:17	465:22 470:7	353:15 370:5
271:23 272:13	190:24 209:21	172:5	473:21 478:11	371:8 375:17
272:15,16,21	209:23 210:1,5	referencing	478:21 491:16	385:21,23
273:8 274:5,11	239:15,16,19	243:6 449:23	492:12 495:21	387:23 472:23
274:24 276:11	343:19,22	referral 140:23	496:3,5 497:20	474:11,20
277:1,7,10,12	348:12,15	referred 247:1,2	502:24 515:8	relatively 351:2
277:22 278:10	366:13 418:1	463:15 464:7	regarding 13:1	relevant 152:6
280:12 314:18	421:17,20	referring 39:9	22:2,7,12,24	152:15,19
346:21 347:5	453:6,10,13	65:24 68:16,24	38:18 108:17	154:12 224:19
407:12 428:1	473:8,11,13,23	88:12 140:21	171:7,18 281:6	reliable 177:3,7
460:2 502:8,8	485:24 486:3,6	164:1 243:2	287:4 293:13	177:11,16,22
recalls 497:8	517:6	244:4 260:5	419:5,14 469:9	178:11 188:16
receipt 518:17	redo 70:8	318:11 340:23	regardless	246:4 294:1
receive 105:16	reduce 447:12	409:1,10	307:15	308:8
105:22 106:1	449:8 453:17	462:17 509:10	region 271:5	reliably 77:16
114:16	reduced 455:5	reflect 111:14	registered 1:16	reliance 45:2,18
received 6:8	reduction	reflected 47:18	366:1,2 517:13	204:5 388:24
88:5,6 105:19	349:12 386:22	refresh 13:21	regression	441:1,15
106:6 110:16	386:23 443:21	38:11	296:10,11	reliant 392:11
114:15 121:11	448:2 454:18	refute 292:4	regularly 37:1	relied 45:20
rechurning	455:7	regard 22:20	490:16	46:23 52:8
225:14 227:10	refer 16:12	23:8,10,20	regulations	108:2 117:20
229:9 230:3,8	490:12	24:22 25:14,20	498:21 499:1	140:4 146:16
230:23 232:9	reference 47:18	25:24 38:12	502:23	relies 360:10
230.23 232.9	49:12,15,24	50:6 58:6 59:1	regulatory	rely 92:16
493:19	50:3 51:1,10	59:1,15 69:17	36:21 502:16	117:16 123:18
recognize 331:6	51:15 52:23	71:3 82:14	502:22	123:19 158:6
recognized	53:7 54:16	89:12,13,17	Reid 88:19	217:21 288:17
295:4		93:2 105:20	relate 18:4	307:5 372:4
	55:20 56:3,14	106:12 113:12	27:24 103:17	
recognizing	57:12,14 58:19			relying 333:17
331:7	69:21 105:5	124:7 125:5	107:11	remember 14:6
recollection	117:3,21	129:9 131:14	related 248:9	14:8 31:10
13:21 38:11	119:13 121:2	131:17 139:14	503:22	55:10 56:4
266:18	124:2 131:13	142:11,14	relates 1:8 89:19	58:11 117:11
recommend	139:17 142:1	145:2 148:23	305:19 306:1	121:20 122:2
Ĺ	1	1	1	ı

_				Page 562
120.0 141.22	16.19.40.12	405:23 406:12	470.00 517.7	weatwist 64.6
130:8 141:22	16:18 49:13		478:23 517:7	restrict 64:6 89:24 137:6
171:1 189:23	50:9,12,19	407:5 411:16	requesting 331:14	
218:22 254:12	51:5,6,16 53:1	433:5 453:2		156:21
255:6 262:22	53:20 57:13	454:24 457:18	requires 302:22	restricted 68:19
263:6 286:15	79:5 82:3	457:21 458:21	requiring	95:12
314:11 323:6,8	86:21 87:3	459:3,22	469:18	restricting
323:24 324:1	100:24 101:2	reported 132:8	requisite 346:3	66:22
374:5 406:16	103:24 104:2,6	132:17 181:14	research 7:16	result 154:23
434:16 435:3,8	104:11 105:6	182:4 248:19	22:2 101:8	203:3 204:4
435:11 441:14	108:6,10	311:23 354:19	145:6,6,13	347:3 360:20
454:8 478:1	110:14,20	381:16 384:21	153:7,12,20	resulted 276:9
remembering	111:21 115:1,6	391:22 397:8	203:5 288:8	476:14
254:17 272:17	115:10,15	417:1 435:2	292:23 293:11	resulting 174:15
remind 136:16	117:4 118:6,14	444:18	293:13,14	results 18:15
remove 126:10	119:3 120:12	reporter 1:16,16	302:23 461:2	101:10 116:3
render 160:2	121:7 124:5,19	1:17 11:16	researchers	179:18,19
165:9	125:3 126:19	15:16 185:8	205:12	203:22 204:2,3
rendering	127:5 134:8	232:19 517:13	resident 461:4	205:15 215:19
162:17 173:2	135:22 137:15	517:14,14,22	residents 23:7	217:16 267:7
RENÉE 3:17	137:20 139:21	reporting	resolved 14:1	274:6,11 275:1
repeat 30:12	140:10,15,17	177:23 267:6	respect 214:3,9	288:21 291:3
31:11 58:3	143:12 147:1	276:10 357:16	236:10 242:11	298:21,22
108:8 124:14	148:2 150:22	385:2 397:3,4	242:17 263:15	307:22 310:5
152:9 167:13	155:14 157:1,7	reports 8:6	352:22 489:2	322:18 357:9
170:18 171:16	159:24 160:17	49:21 50:7	494:8 495:5,15	358:13 360:13
188:8 212:17	161:3,10 162:4	52:2 53:12	respected	367:14 383:20
246:16 253:23	166:1 171:1,7	54:5 58:14,22	200:16,23	384:15 407:6
255:5 291:15	171:17 180:3	59:5 105:18	respectively	408:5,6,21
300:10 375:3	184:23 186:4	111:6 118:3	366:3	409:10 410:8
397:19 404:12	186:11 187:17	119:19 121:3	Respiratory 9:9	410:16 416:23
413:1,4 415:5	205:16 242:21	124:1 139:15	respond 139:8	442:24 444:2
442:2 467:7	243:5 245:11	143:19 504:1	168:1 328:4	469:13 475:22
481:14 495:24	250:6 251:24	represent 31:3	respondents	retained 37:22
Repeated	259:14 273:4,6	229:22 244:10	376:7	43:3 60:1
382:22	273:13,18	287:1 309:10	responding	Retire 6:17
repeatedly	274:4 276:19	407:23 424:16	376:7 458:9	200:20
48:13 49:2	281:2 286:6,8	503:18	response 79:7	retrograde
91:14	292:5 303:7	Representing	81:21 92:13	173:13 432:6
replacement	308:23 309:4	2:16 3:15,20	133:12 138:24	436:20 437:6,9
205:18 242:21	352:3 353:8	4:6	143:20 166:13	437:16,24
243:9	355:5 356:11	reproduction	297:4 306:17	438:6,16
replicated	356:17 357:8	517:20	320:12 479:6	return 518:15
161:18,21	357:22 359:13	reproductive	480:4 482:17	revealed 26:20
replication	374:12 375:5	25:3 444:11	responsive	reversed 357:15
217:15,17	384:9 390:23	request 10:8	81:21 457:6	358:9,17,18,23
reply 372:13	390:24 391:3	116:19	rest 314:16	359:19 360:14
report 6:10	391:10,20	requested	434:15	379:16 380:8
			<u> </u>	<u> </u>

				Page 563
]		<u> </u>	
reverses 372:18	223:14 227:2	136:11 139:9	376:20 378:5	28:1 34:8
373:20 374:4	248:6 255:20	139:22 141:23	379:1 380:16	63:14 65:9
review 6:21 8:18	271:7 285:24	142:9 145:8	380:22 381:2	67:8 69:12,24
44:16 53:7,15	299:16 382:13	150:22 153:16	382:14 383:17	70:10,19 74:24
71:11 91:9,23	382:17,20	154:2,3 157:22	384:17,18,22	78:15 88:24
92:19,23 94:11	383:6 388:19	161:18,22	387:2,8 390:22	89:4 90:14
94:24 95:18	403:12 437:19	168:24 176:18	395:11 400:2	94:12,14 95:15
97:17,24	470:18 481:13	176:23 186:14	402:9 404:24	98:17 124:10
102:19,22	483:16 484:7	186:19,22	405:3 412:3,20	149:8 174:23
103:2,8 105:21	508:23 511:12	187:22 192:11	415:9,10 416:5	175:11 183:3,5
111:2,6,20	reviewer 176:21	193:6,6,7,9,17	416:6,9 417:11	183:16,18,18
126:21 127:14	178:6,14 179:2	198:7 201:15	418:12 420:10	187:20,22
128:6 129:9	180:21 181:3	202:5,6 203:19	423:16 424:6	188:18,21
131:2,6,16	reviewing 58:13	206:15,18,19	425:9 426:14	189:18 192:15
139:12,19	115:17,21	207:11,17,19	426:16,17,21	193:2,22 196:9
142:22 143:16	119:18 161:19	207:20 208:20	428:7 430:16	196:17 197:3
149:3 150:5	162:9 178:23	209:11 213:13	431:22 436:9	197:18 198:20
154:5,20	284:5	215:2 229:24	443:6,14,23	203:24 205:3
162:13,16	reviews 304:5	239:15 241:20	444:6 445:1,9	206:10 210:18
165:8,21 166:8	304:21 305:1	245:17 247:9	445:15 446:13	210:23 226:5
168:18 170:6	307:11 491:12	249:1,4 255:20	449:23 452:16	226:14,22
180:20 181:1,5	revisit 66:24	265:2 271:8	466:10,14	229:15 243:5,8
196:6 247:22	RICHARD 3:12	275:5,6 276:3	467:10 468:22	243:11 244:21
289:11 299:7	richard.heasli	279:12 281:7	473:4,6,10	245:5,15,19,21
336:20 440:14	3:14	287:12 294:14	474:5,12	246:4,13,19
440:22 485:13	rid 219:19,23	295:9 298:11	476:11,22	247:10,10,20
490:18 492:1	220:1	298:14 299:18	477:18 478:3	249:6 252:9,15
514:23	ridiculous 396:2	300:6 301:5	481:8 483:10	252:19,22
reviewed 6:8	right 15:1,6 16:9	303:19 305:2,3	486:19 487:5	253:18 254:5,8
15:3 46:7	21:2,20 22:9	305:5,14,21	488:4 490:23	260:19,23
51:14,24 52:1	29:1 30:5 33:2	309:4,20 310:2	494:22 497:3	261:9 269:3,14
52:8 53:3,10	33:6,23 34:2	313:19 315:22	502:19 505:5	272:22 273:10
54:10 56:17,19	34:10,12,13,15	316:20,21	507:3,6 508:12	309:24 310:1
56:22 57:7	34:16 37:13	319:6 322:5,11	515:19	310:10,15,20
58:17 91:12,13	42:24 43:2	322:15 325:5	right-hand	311:1,9,11,19
92:8,22,22	45:14 47:5	329:20 331:10	87:13 182:20	312:1,12 315:8
105:4 106:13	52:10 64:20	332:15 333:6	215:15 217:10	316:4 317:11
110:17,19	68:7 69:4,18	334:18,22	271:18 275:16	317:15 318:1
115:17 117:16	73:22 74:15	343:4,5,6,11	351:1 377:4,5	319:23 324:10
117:22 131:12	80:22 82:12,18	344:13 346:10	377:21 378:5	324:15,18
133:1,21	83:10,13 86:17	347:2,13 348:2	risk 6:23 7:7,10	328:22 330:4
136:23 142:12	88:1,3,9 96:17	348:6 350:8	7:21 8:9,12,15	338:5 339:11
143:8,11,15	97:1 98:7	351:22 355:8	9:13 13:2	342:4 343:7
144:3,17	102:5 109:23	360:4 363:12	17:10,14 23:4	348:1,5,22
146:16 148:22	112:7 124:10	365:18 368:6	23:10,11,20,23	349:3,9,10,12
155:24 167:22	127:6 134:18	368:12 374:10	24:7,9,22	349:13,14,16
219:4,9,17	135:1,9,13	376:14,15,18	25:14,24 26:9	353:15 355:6
	<u> </u>			

				Page 564
256010	1 27.20	1 217 22	1 220 22 24	1 226 1 1 220 24
356:9,19	routine 27:20	sample 317:22	330:22,24	336:1,1 338:24
357:24 360:23	routinely 279:9	328:20 375:14	337:2 339:23	351:16 359:18
363:2 370:5	Royston 4:6	samples 478:11	340:4 341:21	365:21 373:21
371:4,8 373:6	rubric 36:20,24	497:15	361:1 362:12	379:3 399:4,5
373:23 376:23	rule 320:16	San 2:9	363:1 375:12	416:15,22
378:13,17	ruled 94:17	sand 87:6,8	387:19 392:21	421:12 425:10
380:3 382:8,9	272:18	Sander 199:18	395:3,12,19	437:10 444:7
386:23,24	rules 236:11	201:5 287:9	399:3,8,9	457:21 469:7
405:9,11,15	285:2	sanitary 354:1	413:5 418:3,8	471:5 473:3
419:6,18	S	saved 106:17	422:14,15	476:13 488:20
443:22 444:20	S 5:10 6:2 7:2	saw 72:15	425:21 426:2	498:22 502:12
446:17 447:12		135:21 144:15	437:5 438:24	503:21 508:10
448:2 449:9	8:2 9:2	149:4 238:10	451:24 455:1	510:22 511:5
452:14,20	S-T-R-A-U-S 303:4	260:22 314:5	458:20 460:11	511:12 513:23
454:18 455:14	Saed 124:7	364:17	460:13,22	scenario 330:16
455:24 456:16	139:20 140:24	saying 50:17,18	474:16 476:2,4	493:24
457:12 459:8		53:16 56:5	477:13 489:21	scenarios 275:2
469:13 470:7	162:16 165:24 432:17 433:2	62:11 66:14,19	493:18 496:15	Schildkraut
472:23 474:11		76:17 79:24	503:15 505:2	7:15 254:14
474:20 479:15	434:13 492:16	86:4,9,10	508:1,7 509:2	255:8 261:15
479:19 484:14	Saed's 124:20	91:15 92:6	510:7 511:2,8	264:22 268:3
485:9 487:6,20	125:4 140:12	98:19,22 100:4	512:11,12,15	273:22 275:3,8
493:15 498:17	493:4 495:11	100:10 106:23	513:16,22	275:14 278:19
507:12 514:2,5	Saenz 54:20	127:12,13	says 36:10 68:12	280:14 314:19
risk/benefit	146:9 147:2,19	129:24 131:1	72:13 74:6,16	Schildkraut's
33:22 34:4,6	461:1	134:1 144:14	74:21 75:20,21	264:20 268:5
risks 75:15 76:2	Saenz's 55:3,6	165:19 177:21	75:23 76:18,23	268:12
85:16 192:11	111:11 142:23	178:16 183:6	77:1,20 82:6,8	school 301:11
243:23 253:13	143:8,14	184:5 185:17	82:11 83:16	350:10,12
robbed 395:21	Saez 163:19	189:17 194:1,5	84:1,2 85:14	372:7
ROBINSON 2:3	safe 226:17	195:7 197:15	88:4 90:13	school's 301:12
robotic 14:19	239:8 479:5	205:1,2 230:5	127:7 133:20	schooling 445:2
robust 231:2	480:3,24	230:12 231:12	147:1,9,15,17	science 57:2,5
Roggli 468:24	481:17 482:3	232:13,14	158:10 182:1	57:17 58:5,24
role 39:9 98:14	482:14 483:7	233:8 257:20	183:22 184:6	59:1 153:12
157:20 181:3	484:1 499:21	257:24 259:20	184:13 196:5	205:11 217:21
196:11 277:3	500:12 505:2	276:21,22,23	202:13 203:17	398:9 400:16
room 15:12	508:15 510:3	277:1,3,5,11	236:17 237:6	461:2
ROS 125:5	514:8,15,20	277:13,16	247:19 253:11	Sciences 446:19
435:4	safer 506:3	278:2,10,11	259:2,4 267:18	scientific 104:21
Rothman 7:17	safety 196:14	294:14,16,22	271:20 275:21	111:3,4 115:11
199:21 286:21	205:19 427:4	296:1,8 299:6	277:17,20	156:2,13
287:8 288:7	428:11 504:22	299:15,17	290:12 292:4	157:10,14,16
292:16,24	506:20 510:17	311:2 312:24	319:12 321:1	157:20 217:22
294:2 298:14	sake 352:13,23	313:7,8,10	321:19 322:12	293:8 341:18
roughly 113:20	481:14	314:14 315:1	322:14 323:15	428:10,20
routes 84:8	SALES 1:6	327:11 329:9	329:5,5 331:1	430:8 504:8
	<u> </u>	I	I	I

				Page 565
	40 15 50 0	41.5.04.41.6.0	126.22	. 250 2
scientist 178:19	42:17 53:8	415:24 416:9	136:23	sets 350:3
scientists 67:6	54:12 74:6,18	416:20 425:6	seminar 201:18	setting 15:12
154:19	75:7,11 85:9	428:17 429:1	Senate 154:11	64:3 68:19
screen 73:19	94:19 99:11	436:5 439:1	send 208:20,21	71:2 77:13,15
256:1,2	116:4,5 121:14	442:23 445:21	sends 198:22	492:3
screening 6:19	127:11 129:11	446:14 449:21	499:18	settings 63:4
142:13 220:11	132:15 134:22	450:5 451:3	sensational	64:5,9 68:20
scrub 450:10	137:14 149:15	460:20 461:7	490:8	70:21 71:3
se 264:7,7	150:2 151:2,3	461:10 469:1	sense 185:19	80:1 86:7
Seaport 3:4	153:17,17	471:24 472:14	226:3 270:24	88:23 89:5
search 120:2,5	161:11 180:18	476:19 480:17	371:15 395:23	90:3,5 101:23
120:21 282:13	181:20 182:17	488:18 491:20	461:19 500:5,6	seven 270:22
282:18,24	185:22 200:19	497:2,5,7,11	sent 106:24	SEYFARTH
283:3 286:12	201:2,5,8,12	497:13 498:20	sentence 181:10	3:17
288:4 362:15	201:14 204:6	503:9,10,15	275:17 310:17	SGO 507:3,14
searched 282:10	210:15 214:8	508:20 511:1,6	378:8 476:13	507:19 508:7,9
searches 119:22	214:22 215:24	511:22	separate 204:15	509:19 510:4,6
119:22,23	216:10 219:22	seeing 127:9	222:14 301:7	510:14,20
120:19	226:13 229:16	323:6 449:24	381:12	511:1,20 512:2
seats 73:19	232:1,2,3	450:20 451:2	separated	512:12,18,24
second 141:12	236:6 250:18	seeking 154:11	186:13 264:22	513:18,23
141:16 164:8	256:9,11	361:24	488:1	shaded 186:17
192:24 213:15	258:23 259:1	seen 19:8 46:8	separately	186:22,24
213:18 232:24	259:21 261:13	128:24 132:10	222:14 322:1	187:2,3 189:20
269:19 274:18	264:8 269:11	180:17 197:16	serious 203:24	shakes 389:17
287:9 334:9	269:24 271:19	247:15 248:23	seriously 321:3	share 322:17,20
348:8 350:9	275:8,19 280:1	260:15 263:17	serous 8:21	322:21 504:7
354:20 367:19	287:8 288:15	292:24 318:8	21:16,19	Sharko 3:8 31:1
370:10 374:24	290:7 293:4,6	359:15 394:1	249:20 256:22	31:6 57:21
384:3 409:17	294:7 303:6	411:22 422:8	259:10 260:12	58:1 66:6
417:14 425:2	308:22 309:13	423:8,10,24	260:24 311:1	71:16,19 73:12
425:11,12	313:16 318:16	424:3,5,7	353:16 354:17	73:18,23 76:19
443:18 473:5	318:23 319:14	440:17,19,23	354:22 355:10	80:16 81:5
475:6	323:3,7 325:6	448:7,22,23	356:19 357:9	163:20 168:24
Second-to-last	325:8 333:17	449:1,12,14	357:24 370:7	169:3,18,19
476:12	333:19 334:15	450:15,17,19	372:11 378:13	170:3 190:9
section 84:24	335:14 336:21	451:17 452:2	378:18,20	191:2 207:23
134:9 159:24	350:6 355:15	454:9,15 463:1	409:5,6,21	208:10,15,18
160:11,13,15	357:11 358:21	463:4 470:17	410:19 448:19	209:1,11,14,17
160:17,23	362:4,13	470:23 486:17	449:13 451:14	209:24 213:16
161:20 162:4	365:21 367:24	492:1	461:13 476:17	213:19,24
163:4 172:11	373:10 378:4	segment 215:12	served 176:20	214:2,10 357:4
172:21 189:8	381:9,24 384:2	selection 361:5,9	services 1:20	377:22 378:2
202:12 374:7	389:2 397:23	selective 126:21	11:5 111:17	414:24 458:12
429:8 431:14	398:8 403:8	127:14 131:1,3	serving 515:13	468:10,13
sections 450:11	407:15 408:11	131:4	set 108:5 288:20	473:13
see 31:13,22	408:15 415:17	selectively	401:5	SHAW 3:17
	.00.10 110117	= === = = ;		

she'll 169:5 320:12,13 signatures 518:10 292:22 29 sheet 518:7,9,12 339:9 355:6 448:24 silence 169:21 338:2 345 518:15 520:12 356:18 392:9 signed 115:2 similar 66:21 471:19 short 126:13 433:16 443:21 214:19 338:14 226:14 230:21 size 182:24 343:20 351:2 453:16 340:8 352:18 238:3 256:21 183:14 18 352:16 421:18 Shower 16:15 significance 257:7 294:22 205:5 290	5:1,4 55:22 0:7,15
sheet 518:7,9,12 339:9 355:6 448:24 silence 169:21 338:2 345 518:15 520:12 356:18 392:9 signed 115:2 similar 66:21 471:19 short 126:13 433:16 443:21 214:19 338:14 226:14 230:21 size 182:24 343:20 351:2 453:16 340:8 352:18 238:3 256:21 183:14 18	5:1,4 55:22 0:7,15
518:15 520:12 356:18 392:9 signed 115:2 similar 66:21 471:19 short 126:13 433:16 443:21 214:19 338:14 226:14 230:21 size 182:24 343:20 351:2 453:16 340:8 352:18 238:3 256:21 183:14 18	35:22 0:7,15
short 126:13 433:16 443:21 214:19 338:14 226:14 230:21 size 182:24 343:20 351:2 453:16 340:8 352:18 238:3 256:21 183:14 18	:7,15
343:20 351:2 453:16 340:8 352:18 238:3 256:21 183:14 18	:7,15
	:7,15
1 357·16 471·18 Shower 16·15 Leignificance 1 757·7 794·77 1 705·5 790	
	3:23
486:4 16:16,21,22 6:17 150:15 410:16,24 290:15 31	
shortcomings 97:20,20 188:3,14,17,20 411:6 420:1 314:2,8,9	
398:18 showing 21:8 188:22 189:3 501:20 502:3 317:16 31	
shortened 272:5 65:17 66:1 191:12,16,24 Similarly 500:8 318:22,24	
Shorthand 1:16 88:7 89:3 192:2 194:16 simple 136:6 375:15,18	1
517:13 127:23 128:8 195:17 198:8 166:16 190:16 sizes 205:2	
shortly 270:18 134:2 164:10 199:13 200:21 259:5 299:19 317:22 32	
show 55:12,13	,13
77:14,23 82:13 204:3 207:9,10 210:20,22 simply 82:4 450:16	
89:5 90:6 210:21 238:15 214:17 215:20 single 55:14 slowly 293:	
128:10 129:14 273:18 339:16 217:20 218:1,9 110:11 128:12 small 133:1	,21
130:12 131:9 410:11 424:9 218:13,16 243:1 250:20 134:1,4,5	
132:12 149:2 425:24 426:7 219:24 220:2 250:24 309:11 182:24 18	
150:13 180:1 427:9 451:20 236:3,6 287:11 312:13 313:16 204:24 20	,
183:2,3,4,15 455:4 461:10 298:20 311:5 329:12 426:7 226:14 31	
183:17 189:2 479:13 484:11 477:9 439:1 314:10 31	
191:11,15,21 shown 64:5 90:3 significant sir 147:10 317:24 33	
191:23 192:2 100:6 130:17 150:1 183:3,8 sister 311:7 375:18 42	
199:12 204:4 158:2,4 222:15 183:9,16 187:6 sit 119:2 229:17 431:7,12	
205:12 221:3 229:14 438:14 189:11,18 472:6 smaller 260):17
222:11 233:14 439:3 456:2 195:2 203:3 site 281:19,19 386:9	
243:8 245:18 465:1 470:11 204:16,17,23 507:14 Smith 156:	
260:18 261:12 shows 22:6 210:11 216:4,5 situation 64:1 157:5 292	
262:16 269:17 98:17 129:1 220:23 238:16 67:11 78:2 smoke 342:	
280:2,3 287:5 133:6 149:8 241:22 243:8 90:15 128:13 342:24 34	
310:5 333:16 210:20 261:17 254:16 255:9 262:11 331:21 smoking 30	6:20
339:18 346:19 344:23 363:1 272:22 280:15 356:5 392:13 342:5,15	
347:8 362:3 384:20 393:3 296:12,17,18 394:17 396:2 487:11	
365:11 408:5 Shukla 139:13 298:22 317:15 482:21 483:9 snapshot 45	
421:4,11 162:16 163:19 323:23 370:15 493:7 495:1 snide 214:7	-
445:23 447:11 165:23 370:17 371:1 502:6,11 Society 176	:18
455:1,7,13 side 81:7,9 371:10,20 situations 61:19 507:5	
457:12 459:8 110:13 215:15 374:15 375:9 63:11 67:10 sold 496:4	
462:11,14 378:6 506:20 386:21 420:15 69:15 77:17 somebody 7	78:21
463:8 470:13 sides 110:12 433:21 443:21 90:10 100:7,12 149:16 25	0:21
472:8,16 474:3 198:20 455:10 443:23 472:23 326:22 333:4 267:17 33	
479:17,19 sign 517:9 518:8 474:12 475:21 335:15,18 338:17 33	9:4
showed 70:18 signatories 476:15 337:3 442:16 340:5 361	:24
130:3 149:22 201:9 203:12 signing 124:5,18 456:7 369:14 37	3:13
150:4 151:24 signature 125:2 139:20 six 7:16 75:16 403:5 511	:10
203:23 282:5 451:15 165:24 352:20 76:2 85:17 someone's	132:7

				Page 567
1 120.1	,,, ,, ,,,,	1 1100		225 12 22
someplace 430:1	141:10 177:3	speculate 413:6	338:15 339:1	335:12,22
something's	259:7 260:4	speculating	340:7,13,18,19	356:24 371:14
300:4	290:24 291:9	412:18 414:17	341:24 342:14	374:21 375:3
somewhat 248:8	291:12,13,21	speculation	342:21 352:17	379:24 380:18
284:20	291:23 292:2	413:5	370:3 383:23	396:3 404:13
sorry 14:7,9	sources 84:4	speed 463:11	400:20 405:3	425:22 430:21
30:22 38:7	278:12	spend 164:17	502:21	435:11 437:14
40:11 72:19	South 4:3	403:10	starting 428:17	502:21 511:4
75:1 82:16	space 518:6	spent 61:6 137:9	starts 266:13	511:14,17
92:10 124:13	speak 67:12,12	361:4 409:13	340:11 341:22	513:19
124:24 125:16	70:23 81:12	sperm 173:13	403:5	statements
136:2 142:20	209:3	spirit 233:22	state 12:4 95:7	88:17 138:10
151:14 175:9	speaker 201:19	split 266:14	126:18 140:10	158:6 162:8
180:9 181:15	speaking 21:14	273:18 279:6	145:2 161:3	181:8 182:17
192:23,24,24	65:20 211:18	310:24 392:18	172:15 182:7	217:15 297:7
218:20 220:1	408:22 457:14	476:5	190:23 267:3	325:22 326:11
224:13 237:14	457:20 463:16	split-off 475:1	334:10 350:17	328:7 394:11
237:17 255:22	490:4,6	splitting 324:1	351:2 357:8,13	402:23 423:22
261:7 269:4,5	special 268:4	474:24	357:23 358:9	495:20 496:3
269:14 274:8	specialist 42:10	spoke 410:2	376:21 403:1	States 1:1 29:18
274:14 275:23	91:5	spoken 147:23	436:10 492:9	30:4 32:13
280:22 283:6,7	species 435:12	spontaneous	518:5	145:1 154:11
293:19 308:18	435:20	469:12	stated 46:15	240:13,16
310:18 322:23	specific 21:13	Sprague 130:9	191:7 275:11	248:1 249:1
325:9 327:20	31:22 32:9,20	spurious 116:3	288:3 307:10	stating 100:3
328:1 329:5	37:6 53:24	196:10 205:9	357:21 358:2	201:17 261:5
334:6,13 344:7	58:7,11 61:18	274:6,11 275:1	413:13 445:5	394:5
345:2 347:21	63:10 64:9	320:2 360:20	457:18	statistical 6:17
348:8 350:19	67:4,10 69:14	SR 304:20	statement 23:22	18:5,7,15
350:21 354:20	70:20 71:3	stage 466:14	49:16,20 80:12	150:15 188:3
364:9,10 366:8	94:5 160:23	467:9,19	93:21,22 99:23	188:14,17,19
367:20 370:10	168:13 283:23	Stand 343:18	133:20 140:14	188:22 189:3
374:18 377:7	413:15 428:22	348:11 516:3	140:22 141:11	191:11,16,24
377:13 383:18	432:10 440:10	standard 495:10	149:6 161:6	192:2 194:16
403:16 415:19	440:21	stands 507:5	182:13 184:4	195:17 198:8
415:21 425:1,7	specifically	start 21:7 25:18	185:17 195:20	199:12 200:21
426:18 429:18	59:11 93:15	87:13 110:13	197:17 199:7	202:3 204:5
430:1,13 443:1	111:8 152:2	120:21 183:11	212:18 225:10	210:20,21
445:7 446:24	160:12 164:2	244:6 325:11	247:13,14	214:17 215:18
462:8 465:12	171:9,20 191:8	326:1,4 336:24	249:10 255:5	215:19,20
470:1 489:12	247:23 278:21	337:1 338:12	260:3 266:22	217:19,23
sort 34:14 66:13	308:24 316:2,8	369:18,23	267:21 277:11	217:15,23
98:10 352:6	490:5	487:3	285:18 286:4	220:2 269:7,8
374:13 449:4	Specificity	started 84:20	291:7,22	287:11 298:19
477:15	429:22	113:3 115:16	292:12,13	298:21 477:9
sound 358:23	specifics 252:5	119:2 166:22	295:2 299:6	statistically
source 140:13	specify 243:2	194:24 299:5	318:4 330:14	150:1 187:6
SULL C 170.13	specify 273.2	177.47 477.3	J10.7 JJU.17	150.1 107.0
<u> </u>				

				Page 568
201 21 202 2	510 5 510 15	125 22 152 24	107 17 107 1 2	206 22 207 4
201:21 203:3	510:5 512:15	425:22 453:24	186:17 187:1,2	306:22 307:4
203:22 204:16	512:19 513:1	456:8	187:19 188:3	307:12,15
210:10,11	stopped 300:14	stronger 205:8	188:14,16	308:8,9,22
216:4 220:22	345:18	229:14 484:11	189:1,2,22	309:16,23
241:22 272:22	stopping 37:6	strongest 249:21	191:10,15,20	310:4,5,6,14
280:15 296:12	store 498:9	259:10 260:11	191:23 192:10	310:19 311:3
296:17 309:24	stores 498:9	strongly 87:21	192:16 193:5	311:15,16,17
370:15,17	story 185:7	struck 423:20	198:18 199:12	312:11,13,19
371:9,20	239:2 484:8	struggles 339:23	203:2 205:22	313:2,4,5
374:14 375:9	strange 410:6	stuck 300:11	207:8 210:10	314:5,15,17,22
386:21 420:15	strangely	students 23:6,6	211:9 217:17	315:4,7,11,24
433:20 443:22	353:22	studied 77:12	220:21 221:15	316:2 318:18
472:22 474:12	Straus 7:20	100:13 253:17	222:5,6,11,16	319:1,21
475:21 476:14	303:4	322:11 481:11	222:18 225:23	320:23 322:9
statistics 193:15	Street 2:14 3:13	studies 18:6	226:4,20	324:4,9 325:2
194:3 219:19	3:18	31:20 44:17	227:14 228:2	325:16,19
219:23 283:19	strength 164:7	46:24 47:17,19	229:3,12,14	329:2,4,16
284:10,13	246:14,18	48:2,24 50:10	230:1,6,18,22	330:1 339:16
286:14	268:19 307:23	58:7,11,16	231:10,11,13	340:16 355:6
stay 28:24	408:23 409:11	67:4 76:6	231:16,21,24	355:16 359:22
steady 328:14	429:10	78:10,14 87:22	233:11,13	360:2 361:6
328:15	strengthened	88:6,21 89:3,4	234:3,11,12,14	362:14 380:6
stenographic	361:21	90:6 91:16,18	234:15 235:2,5	380:10,24
11:15	strengthening	93:14 94:8,19	235:16,20	381:6,12,16,19
step 479:7	361:17	95:13 98:16	236:14 237:3,4	390:7 392:23
Stephanie 487:2	strengths	100:9,20,24	238:3,12,12,15	395:6 405:21
stepping 66:22	115:22 282:2	105:5 106:6	240:2,4,7,8	406:4 410:4,4
Steven 180:13	284:22	111:3 115:18	241:11 243:7	410:9,14,24
426:19,24	stress 480:18	115:24 116:2	245:18 247:7	411:5 424:9
428:9	stretch 369:10	121:4 126:23	248:6 249:20	425:23 438:9
STIC 448:19,23	369:17	127:14,17,23	252:8,15,17,21	438:23 440:6
451:11	strict 285:1	128:8 129:2,8	254:3 255:13	440:17,19
stick 245:12	strike 43:18	129:13,20	256:15 257:6	446:3 452:13
330:13	55:4 67:19	130:6 131:8,14	259:2,4 261:9	453:20,21
stimulate	76:17 80:15	132:3,15,23	265:16,21	455:3,6 457:12
293:12	144:9 157:2	135:15 136:7	266:14 268:11	459:5 461:10
Stipulations	158:22 163:16	136:12,23	269:11 270:2	470:13,18
10:11	191:21 206:5	137:9,14,22	270:16 271:3	474:17 479:13
stop 9:20 163:12	212:20 213:17	148:22 149:11	272:1,23 274:7	479:16,19
202:14 205:22	241:18 287:20	149:12,15,21	274:12 275:1	484:9,11 490:7
208:8 209:2	336:15 356:14	150:6,14	282:9,20,21	493:13 506:11
283:17 458:14	418:22 423:9	153:16,18,19	283:4 290:6,8	506:12 509:9
465:19 497:9	430:24 446:8	164:1,3 165:21	290:17,20	study 6:15 7:14
498:22 499:15	447:21 450:18	168:11,12	291:1,17,24	8:6 20:13
499:16,19	456:19 459:20	170:14,22	293:23,24	31:22 53:13,15
501:7 502:1,10	strong 89:3	182:6,23	294:4,5,12,12	53:19 77:13
502:13 509:21	116:1 285:6	183:12,23	304:1 305:10	86:4 90:13
	-	- '	•	-

				Page 569
		l	l	1 .
91:2 118:15	311:7,8 312:5	381:4,5,21,21	252:4 257:2	suggesting
126:21 128:12	313:11,21	382:4,7,13,21	518:10	133:2,22
128:24 129:24	315:12,13	383:13,15,15	subjected 269:8	187:21 257:6,8
130:1,16,19	316:12,16,18	383:24 384:9	410:14	299:24 399:7
131:7 132:5	317:8,10,16,24	384:21 385:18	subjective	405:18 422:16
134:16,16,19	319:6 320:1,12	387:2 388:3,9	263:24	423:24 484:9
134:20 135:1,2	321:5,12 322:9	388:12,18,19	subjects 289:14	502:5 508:3
135:8,12,23	323:2,5 329:12	388:23 394:2	submitted	suggestion
136:11 147:23	329:19,20,20	395:13 397:2	176:21 178:15	169:16 398:9
151:17 161:20	329:24 330:3	397:21 401:4,5	submitting	445:16 476:18
167:22 168:19	330:24 333:13	401:23 403:13	178:18	476:22,24
170:13,21	333:16 334:2	403:14,17	Subscribed	477:3,13
172:10 177:3	337:13 338:1	404:1 405:10	520:19	suggests 326:5
179:22,24	338:13 340:12	405:13,18	subsequent	405:10,13
180:13 184:9	341:3 344:2,9	406:12 408:10	224:16 225:12	Suite 2:9 3:13
184:18 189:13	344:10 345:19	408:11,12,12	227:23 228:24	4:4
189:17 190:19	346:3 350:1,6	410:7,14	229:2 233:5	summaries
193:18,20	351:10,14,22	411:10,13,16	subset 310:23	305:7
194:6,14 195:9	351:24 352:6	411:18,19,21	substance 19:10	supervision
195:11,16,18	353:7,22	412:10,20	97:9,11 485:9	517:22
196:8,9 197:22	354:19 355:22	413:17 414:5	485:11 520:11	supplemental
197:23,23	356:18 357:16	414:10 423:8	subsumed	6:7 49:15
198:1,3,6,12	358:1,9,10,16	423:10 424:5,7	450:23	51:10,17 53:1
201:1,3,6	358:19,21,23	426:7 427:9,14	Subtype 8:10	54:4 55:20
207:10 210:17	358:24 359:16	428:18 431:16	sudden 262:20	56:3,14 57:13
212:16,21	359:19,20	433:20 434:6	263:5,8 280:6	110:16,19
215:1 219:3	360:3,7,10,10	435:24 437:2,8	sued 13:13,24	116:14 117:5
220:7,18 223:2	360:12,22	439:1,7,18,19	sufficiency	121:1,7,10
226:8 236:18	361:14,18	440:6,13,21	246:3	124:2 146:20
238:6 240:4	362:21 363:22	443:2 445:4,13	sufficient 93:18	155:15 459:22
241:7,12,16,21	364:4 365:6,7	445:13,21	247:11 313:23	463:22
248:18 254:12	365:22,23	446:23 448:11	325:14 329:17	support 10:2
255:7 256:6,17	366:13,18	453:1 454:11	330:2 336:21	88:6 89:8
256:18 257:5	367:10 368:14	454:16,16	479:21	140:5 150:13
261:3,12,13,16	368:21,22	465:22 467:23	sufficiently	194:19 199:11
262:2 264:1,20	369:3,20 370:2	472:19 476:10	325:19	231:2 268:18
267:3 268:5,7	371:18,21	488:14 489:20	suggest 31:20	276:11 277:21
268:12 273:6,7	371.18,21	study's 344:16	149:24 276:8	292:13 307:6
273:14,14	373:6,10 374:1	study \$ 344:16 studying 254:4	300:3 397:12	309:23 310:9
277:12 282:2		394:3 396:4		
	374:9,9 375:6	394:3 396:4 stuff 107:8	397:22 398:6 398:16 399:2	310:14,20
283:21 285:6,8	375:15,18,19			311:9,11,24
285:11 286:1	375:23 376:3	390:10 482:24	400:13 420:14	312:12 412:9
287:6 289:5	376:22 377:6	498:18 506:8	422:12 450:20	433:22 437:11
293:21 300:16	377:20 378:9	subgroup	479:22	441:21 446:16
301:24 302:5	379:1,4,7,10	249:18 387:14	suggested	448:1 455:18
308:1,10,12,15	379:11,17	subject 107:15	256:24 352:8	460:14 502:14
308:16 310:22	380:2,21,22	116:2 211:10	445:8,8	supported 61:4
L		I	I	I

				Page 570
89:2 91:16	471:22 472:24	T-A-H-E-R	342:2 343:16	249:5 250:5
supporting	474:14 475:7	223:17	355:18 357:11	254:17 256:15
124:8 438:23	483:10 485:6	table 6:15 148:3	376:17 389:17	256:22 257:1
supports 66:14	490:4 493:8	148:6,7,8,18	389:18 421:13	265:10,23
194:13 360:22	496:1 498:5	148:21 150:12	449:18 450:15	266:10,18
432:7 437:7	501:2 506:6	186:4 187:9,14	453:8 455:23	278:14 307:20
supposed 54:13	507:17 508:9	190:18 192:9	456:1 485:20	311:24 330:12
54:13 89:9	511:19 515:22	204:11 219:6	taken 1:13 15:6	331:16,18
504:21,23	surely 360:12	240:3 269:13	45:13 196:21	339:5,24 340:7
supposition	surface 123:5,11	344:23 347:5,9	249:10 326:23	340:18,19
97:15 98:23	398:19 399:18	347:9 350:3,6	375:22 444:15	341:7,14,23
99:6	399:22	363:3 367:22	takes 26:22	344:24 347:10
sure 24:17 29:4	surgeries 400:9	384:20 415:20	226:22 369:16	347:14,14
29:22 30:14	surgery 14:19	471:18,18,21	talc 6:13,23 7:6	348:20,21
31:13,24 33:17	450:8	471:24 472:12	7:10 8:7,14,17	351:19 352:18
33:21 35:9	surgical 400:8	473:3 474:3	9:10,13,22	352:19 357:17
38:24 40:10	surprise 226:3	475:15,19	16:19 23:8,14	366:19,20
57:24 59:17	surprised	tables 324:7	23:23 24:21	367:2,6 368:1
66:8 71:15	226:12 236:5	Taher 6:24	30:9,16 32:4	368:21 369:18
72:24 79:16	surprising 183:1	145:17 146:2	34:21 43:3,14	370:3,6 374:16
85:8 99:13	183:14 225:13	147:23 171:10	44:3,23 46:12	383:24 384:7
108:9 124:17	232:5 250:1	171:21 223:14	56:23 75:17	389:24 390:20
125:12,18	260:20 311:21	223:17,18	82:23 83:23	391:5,12 393:4
127:2 132:1,9	surprisingly	224:3 231:20	84:4,22,24	394:4 396:1,6
136:4 144:4	311:13	234:6,7 259:11	85:20,22 86:16	396:12,20
147:16 173:19	surrounding	261:21 321:10	89:18 95:1	398:20 400:22
188:10 193:3	468:20	323:21,23	96:2,6 97:18	404:4 405:3
195:21 216:23	Susan 3:8 80:23	324:5,6 325:7	97:19 98:20,24	416:5 417:1,2
222:1 235:3	125:21 208:7	329:4 362:20	100:18,21	419:6,14,18
236:19 239:13	458:18	363:5 382:19	102:2,4 109:1	420:17 422:2
246:17 254:2	susan.sharko	409:22 420:13	116:9 120:7,8	423:13 425:14
258:16 267:13	3:10	432:14 442:23	122:11 123:6	425:24 430:18
280:24 281:20	sworn 11:20	492:15	125:5 128:10	431:17 432:1,9
304:20 309:6,8	517:5 520:19	Taher's 227:7	129:15 130:2,7	432:12,19
317:1,6 318:7	system 173:11	230:14	130:17 131:18	432:12,19
320:18 324:23	487:13	take 26:4,13	130.17 131.18	435:14 436:13
328:14 333:18		27:6 34:20		
	systematic 8:18 94:10,13		134:3,10,20,21	436:14,21
335:22 349:8	,	37:16 40:18	138:1,5,10	437:3 438:6
349:16 360:9	289:11 304:5	79:23 97:14	142:8,14 149:9	439:4,6,15,22
365:19 377:1	304:21 305:1	125:19,24	153:4 165:2,22	440:8,18 441:6
387:23 390:14	systematically	126:5 138:4,13	170:9 175:19	441:21 442:14
399:15 406:20	94:6 Systemic (+21	168:5 179:24	176:7 180:12	444:11,12
409:19 412:16	Systemic 6:21	202:22 221:14	182:2,8 189:19	445:11,14,22
413:3,7 420:8	T	223:22 225:22	220:24 228:20	445:23 446:6
421:6 422:6,10	T 5:10 6:2 7:2	226:4 234:21	237:22 241:6	447:19 448:10
438:7 441:10		263:9 269:21	245:6 246:15	448:15 450:22
442:5 452:23	8:2 9:2 519:1	295:2 321:3	246:20 248:15	464:17,24
	1	1	ı	

465:23 466:5,9 345:18 346:14 329:19,23,24 475:12,13 text 286:14 287:7,14,21 469:15 470:7 353:23 367:15 361:4 363:3 361:4 363:3 381:13 39:8 term 33:16 39:8 textbooks 287:5 thank 12:19 textbooks 287:5
467:23 469:9 347:3 353:16 340:9 353:21 tend 179:3 250:4 287:7,14,21 textbooks 287:5 469:15 470:7 353:23 367:15 361:4 363:3 380:14,24 149:16 177:10 thank 12:19 thank 12:19 14:21 24:16 177:11 197:19 14:21 24:16 148:18 482:13 408:5 409:20 400:21 409:14 255:2 269:1,6 28:16 47:22 269:7 296:9 52:19 56:20 28:16 47:22 269:7 296:9 52:19 56:20 303:19 359:6,9 58:1 70:6 71:15 80:13 375:11 407:12 81:23 85:11 86:19 96:4 71:15 80:13 86:19 96:4 86:19 96:4 86:19 96:4 86:19 96:4 86:19 96:4 102:10 114:19 1
469:15 470:7 353:23 367:15 361:4 363:3 term 33:16 39:8 textbooks 287: 472:21 474:4 384:21 391:3 380:14,24 149:16 177:10 thank 12:19 475:20 476:16 394:3 404:6,16 381:13 395:4 177:11 197:19 14:21 24:16 478:18 482:13 408:5 409:20 400:21 409:14 255:2 269:1,6 28:16 47:22 482:16,23 422:20 423:13 430:4 456:22 269:7 296:9 52:19 56:20 484:13,24 427:17 442:7 458:8 465:20 303:19 359:6,9 58:1 70:6 487:20 496:5 478:10,11,16 tasked 92:18 375:11 407:12 81:23 85:11 503:8,15,20,22 478:22 479:2,5 478:29 499:2,5 479:19 teaching 288:7 475:11 86:19 96:4 509:21 510:5 487:15 491:3 491:13,16 491:13,16 497:21 499:5 499:6 499:7,7 170:3 180:23 510:15 512:13 497:21 499:5 499:2 499:6 499:7,7 170:3 180:23 11:11 13:1,10 503:16 504:14 491:15:7 35:22 499:6 504:8 239:24 241:1 16:12 22:3,7
472:21 474:4 384:21 391:3 380:14,24 149:16 177:10 thank 12:19 475:20 476:16 394:3 404:6,16 381:13 395:4 177:11 197:19 14:21 24:16 478:18 482:13 408:5 409:20 400:21 409:14 255:2 269:1,6 28:16 47:22 482:16,23 422:20 423:13 430:4 456:22 269:7 296:9 52:19 56:20 483:13,24 427:17 442:7 458:8 465:20 303:19 359:6,9 58:1 70:6 484:24 485:12 447:20,23 478:5 505:18 359:23 371:22 71:15 80:13 487:20 496:5 478:10,11,16 tasked 92:18 375:11 407:12 81:23 85:11 503:8,15,20,22 478:22 479:2,5 taught 284:11 475:11 86:19 96:4 507:12,19 481:21 482:11 teach 306:7,8 362:16 102:10 114:19 509:21 510:5 487:15 491:3 teaching 288:7 409:7,7 170:3 180:23 510:15 512:13 491:13,16 textm 153:20 409:7,7 170:3 180:23 11:11 13:1,10 503:16 504:14 tell 15:7 35:22 499:6 504:8 239:24 241:1 16:12 22:3,7
475:20 476:16 394:3 404:6,16 381:13 395:4 177:11 197:19 14:21 24:16 478:18 482:13 408:5 409:20 400:21 409:14 255:2 269:1,6 28:16 47:22 482:16,23 422:20 423:13 430:4 456:22 269:7 296:9 52:19 56:20 483:13,24 427:17 442:7 458:8 465:20 303:19 359:6,9 58:1 70:6 484:24 485:12 447:20,23 478:5 505:18 359:23 371:22 71:15 80:13 487:20 496:5 478:10,11,16 tasked 92:18 375:11 407:12 81:23 85:11 503:8,15,20,22 478:22 479:2,5 taught 284:11 475:11 86:19 96:4 505:2,11 479:22 480:23 294:19 terms 120:6 102:10 114:19 508:4,11 482:15 483:12 teach 306:7,8 362:16 119:11 133:19 509:21 510:5 487:15 491:3 team 153:20 409:7,7 170:3 180:23 510:15 512:13 491:13,16 4:9 236:13 269:9 200:18 213:19 talcum 1:5 497:21 499:5 teeth 250:20 477:8 497:15 220:13 223:12 16:12 22:3,7 505:4
478:18 482:13 408:5 409:20 400:21 409:14 255:2 269:1,6 28:16 47:22 482:16,23 422:20 423:13 430:4 456:22 269:7 296:9 52:19 56:20 483:13,24 427:17 442:7 458:8 465:20 303:19 359:6,9 58:1 70:6 484:24 485:12 447:20,23 478:5 505:18 359:23 371:22 71:15 80:13 487:20 496:5 478:10,11,16 tasked 92:18 375:11 407:12 81:23 85:11 503:8,15,20,22 478:22 479:2,5 taught 284:11 475:11 86:19 96:4 505:2,11 479:22 480:23 294:19 terms 120:6 102:10 114:19 508:4,11 482:15 483:12 teaching 288:7 terms 120:6 102:10 114:19 509:21 510:5 487:15 491:3 team 153:20 409:7,7 170:3 180:23 510:15 512:13 491:13,16 4:9 236:13 269:9 200:18 213:19 512:15 513:2 492:20 496:15 4:9 236:13 269:9 200:18 213:19 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 22:12,20 23:1 508:14 5
482:16,23 422:20 423:13 430:4 456:22 269:7 296:9 52:19 56:20 483:13,24 427:17 442:7 458:8 465:20 303:19 359:6,9 58:1 70:6 484:24 485:12 447:20,23 478:5 505:18 359:23 371:22 71:15 80:13 487:20 496:5 478:10,11,16 tasked 92:18 375:11 407:12 81:23 85:11 503:8,15,20,22 478:22 479:2,5 505:2,11 479:22 480:23 294:19 terms 120:6 102:10 114:19 507:12,19 481:21 482:11 teach 306:7,8 362:16 119:11 133:19 509:21 510:5 487:15 491:3 team 153:20 409:7,7 170:3 180:23 510:15 512:13 491:13,16 499:21 499:5 4:9 236:13 269:9 200:18 213:19 talcum 1:5 497:21 499:5 teeth 250:20 477:8 497:15 220:13 223:12 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 4
483:13,24 427:17 442:7 458:8 465:20 303:19 359:6,9 58:1 70:6 484:24 485:12 447:20,23 478:5 505:18 359:23 371:22 71:15 80:13 487:20 496:5 478:10,11,16 tasked 92:18 375:11 407:12 81:23 85:11 503:8,15,20,22 478:22 479:2,5 taught 284:11 475:11 86:19 96:4 505:2,11 479:22 480:23 294:19 terms 120:6 102:10 114:19 507:12,19 481:21 482:11 teach 306:7,8 362:16 119:11 133:19 509:21 510:5 487:15 491:3 teaching 288:7 Terry 135:12 141:9 162:6 510:15 512:13 491:13,16 TECHNICIAN 409:7,7 170:3 180:23 512:15 513:2 492:20 496:15 4:9 236:13 269:9 200:18 213:19 11:11 13:1,10 503:16 504:14 tell 15:7 35:22 499:6 504:8 239:24 241:1 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515
484:24 485:12 447:20,23 478:5 505:18 359:23 371:22 71:15 80:13 487:20 496:5 478:10,11,16 tasked 92:18 375:11 407:12 81:23 85:11 503:8,15,20,22 478:22 479:2,5 taught 284:11 475:11 86:19 96:4 505:2,11 479:22 480:23 294:19 terms 120:6 102:10 114:19 507:12,19 481:21 482:11 teach 306:7,8 362:16 119:11 133:19 508:4,11 482:15 483:12 teaching 288:7 Terry 135:12 141:9 162:6 509:21 510:5 487:15 491:3 team 153:20 409:7,7 170:3 180:23 510:15 512:13 491:13,16 499:7,7 170:3 180:23 422:15 513:2 492:20 496:15 4:9 236:13 269:9 200:18 213:19 51:11 13:1,10 503:16 504:14 tell 15:7 35:22 499:6 504:8 239:24 241:1 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 22:12,20 23:1 508:14 510:17 118:16 132:3 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17
487:20 496:5 478:10,11,16 tasked 92:18 375:11 407:12 81:23 85:11 503:8,15,20,22 478:22 479:2,5 taught 284:11 475:11 86:19 96:4 505:2,11 479:22 480:23 294:19 terms 120:6 102:10 114:19 507:12,19 481:21 482:11 teach 306:7,8 362:16 119:11 133:19 508:4,11 482:15 483:12 teaching 288:7 Terry 135:12 141:9 162:6 509:21 510:5 487:15 491:3 team 153:20 409:7,7 170:3 180:23 510:15 512:13 491:13,16 492:20 496:15 4:9 236:13 269:9 200:18 213:19 talcum 1:5 497:21 499:5 teeth 250:20 477:8 497:15 220:13 223:13 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:17 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 35:12,23 36:1
503:8,15,20,22 478:22 479:2,5 taught 284:11 475:11 86:19 96:4 505:2,11 479:22 480:23 294:19 terms 120:6 102:10 114:19 507:12,19 481:21 482:11 teach 306:7,8 362:16 119:11 133:19 508:4,11 482:15 483:12 teaching 288:7 Terry 135:12 141:9 162:6 509:21 510:5 487:15 491:3 team 153:20 409:7,7 170:3 180:23 510:15 512:13 491:13,16 TECHNICIAN test 79:17 184:22 199:9 512:15 513:2 492:20 496:15 4:9 236:13 269:9 200:18 213:19 talcum 1:5 497:21 499:5 teeth 250:20 477:8 497:15 220:13 223:12 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 22:12,20 23:1 508:14 510:17 118:16 132:3 12:24 13:5,9 315:21 368:8 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:1' 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 35:12,23 36:13 202:3 235:
505:2,11 479:22 480:23 294:19 terms 120:6 102:10 114:19 507:12,19 481:21 482:11 teach 306:7,8 362:16 119:11 133:19 508:4,11 482:15 483:12 teaching 288:7 Terry 135:12 141:9 162:6 509:21 510:5 487:15 491:3 team 153:20 409:7,7 170:3 180:23 510:15 512:13 491:13,16 TECHNICIAN test 79:17 184:22 199:9 512:15 513:2 492:20 496:15 4:9 236:13 269:9 200:18 213:19 talcum 1:5 497:21 499:5 teeth 250:20 477:8 497:15 220:13 223:12 11:11 13:1,10 503:16 504:14 tell 15:7 35:22 499:6 504:8 239:24 241:1 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 22:12,20 23:1 508:14 510:17 118:16 132:3 12:24 13:5,9 315:21 368:8 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 35:12,23 36:13 2
507:12,19 481:21 482:11 teach 306:7,8 362:16 119:11 133:19 508:4,11 482:15 483:12 teaching 288:7 Terry 135:12 141:9 162:6 509:21 510:5 487:15 491:3 team 153:20 409:7,7 170:3 180:23 510:15 512:13 491:13,16 TECHNICIAN test 79:17 184:22 199:9 512:15 513:2 492:20 496:15 4:9 236:13 269:9 200:18 213:19 11:11 13:1,10 503:16 504:14 tell 15:7 35:22 499:6 504:8 239:24 241:1 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 22:12,20 23:1 508:14 510:17 118:16 132:3 12:24 13:5,9 315:21 368:8 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:1' 30:5 31:16 talk 21:23 92:11 234:8 292:12 354:23 386:13 thanks 59:13 35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
508:4,11 482:15 483:12 teaching 288:7 Terry 135:12 141:9 162:6 509:21 510:5 487:15 491:3 491:13,16 491:13,16 491:13,16 492:20 496:15 492:20 496:15 492:20 496:15 4:9 236:13 269:9 200:18 213:19 talcum 1:5 497:21 499:5 teeth 250:20 477:8 497:15 220:13 223:12 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 22:12,20 23:1 508:14 510:17 118:16 132:3 12:24 13:5,9 315:21 368:8 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:17 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 33:1,5 34:21 173:18 198:20 295:19 297:5 354:23 386:13 thanks 59:13 35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
509:21 510:5 487:15 491:3 team 153:20 409:7,7 170:3 180:23 510:15 512:13 491:13,16 TECHNICIAN test 79:17 184:22 199:9 512:15 513:2 492:20 496:15 4:9 236:13 269:9 200:18 213:19 talcum 1:5 497:21 499:5 teeth 250:20 477:8 497:15 220:13 223:13 11:11 13:1,10 503:16 504:14 tell 15:7 35:22 499:6 504:8 239:24 241:1 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 22:12,20 23:1 508:14 510:17 118:16 132:3 12:24 13:5,9 315:21 368:8 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:17 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 33:1,5 34:21 173:18 198:20 295:19 297:5 354:23 386:13 thanks 59:13 35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
510:15 512:13 491:13,16 TECHNICIAN test 79:17 184:22 199:9 512:15 513:2 492:20 496:15 4:9 236:13 269:9 200:18 213:19 talcum 1:5 497:21 499:5 teeth 250:20 477:8 497:15 220:13 223:13 11:11 13:1,10 503:16 504:14 tell 15:7 35:22 499:6 504:8 239:24 241:1 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 22:12,20 23:1 508:14 510:17 118:16 132:3 12:24 13:5,9 315:21 368:8 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:1' 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 33:1,5 34:21 173:18 198:20 295:19 297:5 354:23 386:13 thanks 59:13 35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
512:15 513:2 492:20 496:15 4:9 236:13 269:9 200:18 213:19 talcum 1:5 497:21 499:5 teeth 250:20 477:8 497:15 220:13 223:13 11:11 13:1,10 503:16 504:14 tell 15:7 35:22 499:6 504:8 239:24 241:1 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 22:12,20 23:1 508:14 510:17 118:16 132:3 12:24 13:5,9 315:21 368:8 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:17 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 33:1,5 34:21 173:18 198:20 295:19 297:5 354:23 386:13 thanks 59:13 35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
talcum 1:5 497:21 499:5 teeth 250:20 477:8 497:15 220:13 223:13 11:11 13:1,10 503:16 504:14 tell 15:7 35:22 499:6 504:8 239:24 241:1 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 22:12,20 23:1 508:14 510:17 118:16 132:3 12:24 13:5,9 315:21 368:8 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:17 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 33:1,5 34:21 173:18 198:20 295:19 297:5 354:23 386:13 thanks 59:13 35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
11:11 13:1,10 503:16 504:14 tell 15:7 35:22 499:6 504:8 239:24 241:1 16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 22:12,20 23:1 508:14 510:17 118:16 132:3 12:24 13:5,9 315:21 368:8 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:1' 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 33:1,5 34:21 173:18 198:20 295:19 297:5 354:23 386:13 thanks 59:13 35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
16:12 22:3,7 505:4 507:22 68:22 79:1 testified 11:21 283:7 296:6 22:12,20 23:1 508:14 510:17 118:16 132:3 12:24 13:5,9 315:21 368:8 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:1° 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 33:1,5 34:21 173:18 198:20 295:19 297:5 354:23 386:13 thanks 59:13 35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
22:12,20 23:1 508:14 510:17 118:16 132:3 12:24 13:5,9 315:21 368:8 27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:1° 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 33:1,5 34:21 173:18 198:20 295:19 297:5 354:23 386:13 thanks 59:13 35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
27:8 28:23 512:19 514:9 140:20 141:1 13:19 47:23 430:12 440:3 29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:1' 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 33:1,5 34:21 173:18 198:20 295:19 297:5 354:23 386:13 thanks 59:13 35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
29:5,9,13,18 515:8,13 148:17 212:9 93:4 96:16 465:15 472:17 30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 33:1,5 34:21 173:18 198:20 295:19 297:5 354:23 386:13 thanks 59:13 35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
30:5 31:16 talk 21:23 92:11 234:8 292:12 332:22 333:7 515:21 33:1,5 34:21 173:18 198:20 295:19 297:5 354:23 386:13 thanks 59:13 35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
33:1,5 34:21 173:18 198:20 295:19 297:5 354:23 386:13 thanks 59:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
35:12,23 36:13 202:3 235:1 315:11 342:7 testify 39:3 283:8 298:13
36:19 37:11,23 308:23 309:1,3 359:21 368:22 61:21 145:1 470:2
38:18 44:15 309:14,18 405:14 407:8 346:11 theme 66:24
84:7,12 96:9 323:2 337:12 421:1,2 451:17 testifying 15:10 theories 57:5
96:10,22,23 363:13 383:12 455:22,23 42:16 88:1 59:2
98:5 103:18 390:10 406:18 478:4 479:10 346:21 theory 433:13
108:17,24 409:17 410:2 479:20 484:7 testimony 5:4 433:16 445:18
109:4,13,22 440:4 452:10 498:23 500:23 39:17 42:11 therapy 205:18
113:17 115:6 talked 88:14 501:24 506:17 45:24 46:10 242:22
124:9 145:3,7 346:23 414:22 telling 51:13 52:23 59:24 thing 26:19 73:
145:14 154:15 talking 15:18 70:14 166:21 62:14 64:18,20 83:7 122:19
170:7 174:2,14 81:6,9 82:23 231:19 362:24 65:14 66:1,2 130:5 137:23
174:22 175:1,6 82:24 83:8 482:4 490:24 71:24 82:7,14 184:16 218:16
175:9,15 85:3,4,5,7,8 509:4 512:14 104:9 130:14 227:15 236:24
224:20 245:16 86:22 135:19 513:1 16:5 283:5 237:1 260:9
248:2 252:9 139:3 167:18 ten 361:16 372:23 450:17 263:12 264:5
253:18 254:4 206:7,10 364:17 368:15 478:21 509:20 277:5 294:20
267:4 309:24
310:20 311:11 231:15,17 387:20 389:6 testing 170:7 323:1 328:17
316:3 336:13
336:18,22 272:12 309:12 474:11,18,19 498:2 499:4 361:10 373:12
337:14 344:11 313:4 329:15 474:24 475:2,2 tests 18:16 388:17 449:6
337.11.311.11 313.1327.13 477.27 473.2,2 6363 10.10 300.17 477.0

-				Page 572
461 10 464 1	104 20 106 12	102.0	1 21 0 25 4 44 6	222 22 24
461:18 464:1	194:20 196:13	493:9	21:9 35:4 44:6	233:22,24
474:13 479:18	198:17 206:2	thinks 229:16	48:21 60:1,23	289:15 345:4
506:3	213:21 215:21	399:22	61:6 69:11	471:13 502:17
things 20:16	221:9 223:8,9	third 258:24	79:12,15,22	tissue 123:7
36:23 66:15	248:8 249:9	462:20,23,24	125:21 126:10	389:14 390:9
77:11 98:11	250:16,23	thirty 518:16	126:15 137:10	390:21 391:19
137:11 157:22	251:17 252:3	THOMPSON	164:3,17	393:4 398:21
189:21 205:19	252:14,23	2:13	171:16 181:3,3	399:17 431:19
237:4 251:18	254:20 262:7	thorough 27:1	195:22 201:18	449:22 462:3
251:19,22	262:17 263:18	90:18	202:22 212:7	465:2
276:24 277:4	263:18 264:4	thought 27:20	217:24 228:9	title 74:11,11
277:10 278:3,8	264:19 265:8	30:24 31:4	229:16 239:11	121:19 200:20
284:4 285:5	266:11,13,21	44:1 78:21	239:15,19	203:17 467:22
290:11 295:7	274:16 282:17	116:1 125:17	248:17 254:12	487:1
314:18 315:2,3	283:19 286:9	138:18 144:15	262:14,20	titled 71:10
315:23 320:3	290:19 291:16	282:5 283:24	264:11,13,24	110:14 134:9
323:13 324:7	292:1 297:6	285:16 294:14	266:8 268:20	180:12 292:22
326:12 332:12	307:16 319:20	294:17 314:22	269:3,18,21	302:17 488:16
342:20 388:20	319:22 323:20	320:4 328:13	270:11,19	503:7
399:7 402:20	335:8 338:8,23	354:10 371:16	286:2 289:17	today 11:12
402:21 437:1	353:3 356:10	371:24 404:20	295:6 316:16	12:20 16:13
449:20 463:11	360:21 364:24	414:9,11	319:4 326:8,9	37:16 46:1,10
495:8 499:18	369:9,15	416:13 465:12	336:6 338:19	49:4 59:12
499:23	370:12,16	501:12	339:2 343:18	60:21 61:12
think 16:4 19:6	371:13 372:15	thousands 506:9	343:22 344:12	62:12,21 65:15
20:18 21:5	375:16 379:22	three 13:18	345:3 348:11	65:21 67:1
24:15 26:19	380:23 382:3,5	73:18 81:9	348:15 352:24	69:3 76:20
27:22 31:19	382:5,11 388:8	87:7 93:14	353:2 361:4,19	77:9 102:20
33:15 34:3	393:2,21	131:14 229:3	364:16 366:9	112:21 113:3
38:5,8,13	394:18 396:10	233:10 290:16	366:12 381:17	113:16 123:16
42:14 46:6	397:7 398:6,11	296:9 305:7	403:10 409:14	151:7 342:24
53:18,23 63:11	402:22 408:23	311:17 318:17	419:13 421:3	371:7,17
63:23 65:19	409:7 429:16	328:2 329:1	421:11,16,16	463:24 464:12
66:6,24 68:10	435:1 449:19	352:19 389:17	421:20 431:5,7	471:13 492:12
68:16 69:6,23	458:6 462:12	410:4 417:6	431:12 433:4	496:13
70:9,16 77:6,8	464:10 465:9	453:20 464:7	450:24 452:1	today's 11:6
78:3,4 80:6,24	470:4 473:14	493:12	453:9,12	56:21 59:8,16
81:1 82:7 83:3	473:15 475:5	threshold	462:20,23	60:3 102:19
83:10 100:2	476:5 477:2	202:17	463:1 473:10	113:2 114:16
110:9 129:20	480:16 485:21	thresholds	473:23 474:16	516:4
135:24 137:21	498:5,10	204:5	481:14 486:2,6	told 91:14 118:2
138:4,7 140:18	499:20 500:4	throw 40:16	493:10,24	260:7 371:8,16
149:9 151:10	501:18 502:7	232:8,10 233:4	494:3 506:8,15	389:15 402:22
156:13 158:5	505:23 506:1,3	236:14 294:23	516:5	495:9 501:21
164:20 168:14	514:19	throwing 235:22	times 13:17,20	505:11 510:16
177:9,17 184:4	thinking 27:18	time 11:7 12:24	16:3 50:18	toothpaste
190:2,20 192:9	293:12 360:13	14:22,24 19:24	66:20 67:15	250:21
	_			I

				Page 573
	l		1	l
top 74:13 141:21	transcription	111:24 124:22	tubal 441:23	321:5 322:9
196:1 270:23	520:7	125:7 140:7,8	442:8,16 443:5	328:6 332:12
304:4,18	transcripts 54:6	161:6 171:5,15	444:8,19 446:5	355:16 364:21
319:17 334:20	transform 19:11	193:22 221:16	tube 452:8	366:4 373:6
350:24 357:14	transformation	237:23 257:23	tubes 422:4,21	380:6,9,22
430:4 441:15	451:1	309:17 312:18	423:15 438:17	381:1,5,6,6,18
469:23 497:7	transformed	315:14,19,20	441:22 443:21	381:22 391:11
topic 60:24 62:6	433:17	316:1,14,15	tubular 448:19	407:13 445:13
62:7 92:20	translocate	317:11 332:24	TUCKER 4:2	449:19 455:2
128:7 152:20	422:2,20	341:7 343:7,14	tumor 390:21	457:24,24
206:17 209:22	423:14 438:7	344:14 349:10	448:22 450:12	470:19 471:5
224:10 253:17	translocation	349:14,15,19	450:23	474:20,24
262:13 264:9,9	429:8 436:21	352:3,4 355:11	tumors 409:2	475:4,12 476:6
325:1 389:21	transport 432:7	360:6 364:8	461:12	489:23
459:6	437:9,16	367:16,18	turn 41:11 64:22	two-sided 343:3
total 113:14	transports	371:4 383:10	72:3 84:23	tying 98:10
368:16 386:2	437:6	388:23 413:12	87:2,5 111:13	Tylenol 456:1,2
417:1	travel 438:15	413:15 429:6	116:11 133:15	type 6:15 21:21
totality 48:18	travels 134:22	432:4 439:24	134:7 135:7	28:1,12 56:6
49:4,10 54:22	treat 206:12	440:1 443:10	186:3 202:19	244:3 249:19
114:14 116:8	213:22	458:18,18	256:5 258:22	250:2 259:10
137:6 162:9,14	treated 469:15	464:14 487:21	271:14 273:21	259:13,14
289:7 307:11	treatise 194:13	517:6	275:13 281:2	260:12,14,22
336:20 352:7	194:17	trust 179:3,9,14	334:3 359:8	261:1 272:13
402:19 481:12	treatment 13:15	179:19 386:24	367:21 407:3	272:15 308:13
481:21 483:16	14:14	trusting 178:22	420:9 424:22	353:20 354:8
484:6,12	trend 268:19,23	truth 15:7	430:3,12	354:24 355:2
511:22	269:2,6	154:14 238:23	443:17 446:10	408:11 461:12
totally 94:17	trial 13:6,10	361:24 399:10	458:22 471:14	461:14
208:8 390:17	37:19 116:16	509:4 511:21	471:15 482:8	types 42:13 74:8
tough 176:12	228:21 453:20	try 15:21 122:9	486:19	75:16 76:3
493:6	trials 101:2	122:23 212:7	turning 85:12	85:17 94:18
TPP 8:20,21	293:22 305:9	274:23 295:6	216:24 217:9	259:16,22
Trabert 454:15	tried 115:24	297:22 353:12	224:9,10	282:2 324:18
tract 173:11	204:15 263:11	trying 14:6	384:19	typically 15:2
423:1 427:6	trouble 75:6	46:19 68:17,22	TV 264:12	18:3 118:20
437:20,24	215:17	69:2 70:16	twice 139:1	222:8 262:3
438:15 444:11	true 13:3,4	95:7,7 123:10	175:10 250:20	
445:15 448:9	14:16 17:1	140:18 159:4	251:1 356:11	U THE SECTION
train 328:13	22:5,10,11,14	274:14 295:13	two 48:11 73:15	U.S 365:24,24
trained 284:3,8	22:18,22 23:24	297:24 313:3	79:2 89:4	366:2
transcript 5:14	24:23 33:3	328:3,13	94:18 118:21	umbrella 21:17
5:17,19 39:24	36:22,23 37:14	338:20 340:12	122:24 140:19	un-peer-revie
40:22 41:11	44:13,22 49:16	400:17 417:9	192:10 193:6	443:8,12
45:10,12 65:18	49:19 50:9	418:3 438:11	201:20 203:2	unable 361:14
68:15 517:9,19	59:6 60:7,11	460:9,10 463:8	296:10 301:1	unartful 16:2
518:17,19	88:2 102:6	463:9 472:24	305:7 320:10	unclear 85:5
<u></u>		l	I	I

	İ	Ī	İ	Ī
underlying	unfortunately	248:2,8 250:5	289:19 290:3	470:2 473:9,22
50:10	179:8 388:16	250:6,24	292:8	486:1,5 516:2
understand 15:8	471:16	256:22 257:1,9		VIDEOTAPE
15:13 16:1,14	unimpressive	258:4 259:6	V	4:9
24:18 29:8,12	460:23	267:5 272:4	vacuum 375:23	videotaped 1:13
29:17 30:2,6	uninformed	276:10,14	vagina 128:15	6:6 11:8
37:15,20 52:6	156:13	280:16 316:4	130:12 425:17	view 164:5
52:10 54:17	Union 4:6	333:20 339:19	438:16	violation 154:24
69:3 85:24	unique 303:1	344:17,17,24	vaginal 151:19	virus 120:15
86:14,16 90:11	United 1:1 29:17	345:10 347:3	valid 178:9	vitro 153:15,18
94:18 101:3	30:4 32:13	347:10,14,20	179:16,22,24	voice 57:22
103:5 105:2	145:1 154:11	347:22 348:20	236:15 368:9,9	240:22
107:4,9 140:10	240:13,15	348:21 351:20	368:13 371:1	voicing 411:9
144:19 146:13	248:1 249:1	353:16,21,23	372:4 373:12	Volume 5:23
154:10,18	universe 45:20	354:7 359:6,12	validity 293:22	71:10
155:1,6,17	46:22 47:19	360:3 361:22	387:13	vulva 128:9
161:16,22	49:7	366:19 367:2	Valley 7:7	
167:10 173:19	unnatural	367:14 368:1	value 196:10	W
195:3,13 197:7	438:22	369:18 370:3,6	values 303:1	W 4:3
209:2 215:6	unpublished	374:15 376:9	320:2	Wacker 4:3
234:19 250:14	443:7,11,15	376:13,18	vanity 299:23	wait 15:22
251:6,13	446:2	378:11,19	variety 274:7,12	465:14
252:19 258:19	unreliable 188:1	380:3 389:5,16	275:2 316:13	waiting 15:21
279:11 295:1	188:12 191:16	413:11 416:5	vary 259:13	169:23
297:24 298:11	191:24 252:8	417:1,3,4,21	venued 14:10	want 15:18 16:3
298:12 301:21	unusually 335:2	418:19 425:8	verdict 266:10	16:9 24:17
324:8 365:4,14	335:8	448:9 453:16	515:6	47:11,14 72:24
401:19 418:8	unwarranted	453:23 454:2	version 148:11	76:7 81:16
418:11 436:24	217:13	454:17 455:19	185:10 472:7,9	84:17 92:12
473:1 475:16	update 149:13	455:22 456:9	versus 34:8	125:23 126:4
494:22 502:18	150:24	456:15 459:17	202:4 257:1,9	129:16,19
understanding	usage 266:18	459:17 464:9	259:6 267:23	141:18 162:11
38:20 41:16,24	use 6:23 7:9,12	469:9 472:21	269:10 276:12	168:8 211:21
42:7,12 43:8	8:7,12,14,17	474:4,19,19	276:13 277:23	211:24 212:9
43:10,19 46:18	9:13 16:18	475:20 476:16	368:2 371:12	216:17,22
91:6 92:15	30:9 33:5	479:5 480:2	vicinity 408:14	218:10 219:18
178:21,24	35:23 37:8	481:1,18 482:3	victim 336:11	219:23 220:1
251:17 314:1	44:3 53:21	482:14 487:15	353:5	222:1 258:13
345:5 366:24	56:24 75:8	498:24 500:12	Victor 468:24	258:18 274:20
422:7	101:4 124:9	507:21 510:3	videographer	297:11 320:18
understood 16:7	128:19 132:8	users 374:17	11:2,4 126:9	328:14 334:14
190:12	149:16 157:10	405:7	126:14 239:14	337:14 354:14
underwear	165:2 177:10	uses 29:5 225:17	239:18 343:17	380:7 390:18
336:13	177:11 179:13	248:14 480:8	343:21 348:7	396:22 400:13
unethical 439:7	188:19 205:19	usually 222:8	348:14 421:15	401:21 402:19
unexposed	207:15 236:19	335:9 444:9	421:19 453:9	422:6 453:1
397:13 398:22	242:21 243:16	utility 287:20,22	453:12 469:22	467:7 471:23
	l		l	I

-				Page 575
472 12 474 15	72 (101 12	01 12 102 17	202.5.16	10 12 10 2 21
472:12 474:15	72:6 101:13	81:13 102:17	302:5,16	18:13 19:3,21
479:2 480:7	163:6 178:5	117:22 125:20	welcome 169:13	20:21 24:3
482:10 483:5	193:1 215:22	139:21 169:8	well-designed	26:4 27:4,15
483:10 489:16	215:23 233:10	379:5 392:14	306:10	28:5 29:4,22
491:11 494:6	270:20 283:7	405:20 406:7,8	well-known	32:8,19 33:9
495:2 503:5	284:8 317:4	411:22 428:15	262:21	33:15 35:2,17
507:18 513:24	330:5 376:11	463:24 495:7	went 53:21 57:8	36:3 38:24
wanted 82:13	390:15 395:8	506:9	75:6 80:23	39:7 40:10
125:18 149:2	395:24 413:3	weak 165:7	314:19 350:10	42:5 43:24
149:14 150:2,9	435:24 445:22	222:10 247:3	350:11 352:1	44:21 46:4
152:17 169:15	460:10 506:16	476:14 479:14	356:9 369:19	48:8 49:19
342:3,5 413:4	ways 226:17	484:9	373:23 395:19	50:16 51:4,21
wants 73:13	284:23 455:12	weakened	435:13,18	53:6 55:24
250:22	457:11 458:22	390:12	454:7 457:23	58:2,10 60:7
War 63:9 69:8,9	458:24 459:7	weaker 479:13	458:22 461:9	60:18 62:2,19
69:9	459:16 471:2	479:16 484:8	498:3	63:2,23 70:14
warning 244:21	509:12	502:5	weren't 42:23	72:23 74:3
499:15,19	we'll 87:2,13,13	weakly 479:16	409:3	77:6 79:8
500:1,9,11,16	110:13 123:19	weakness	West 2:8	89:23 90:24
500:19,24	125:14 141:13	164:15 352:21	WHI 311:8	92:2,14 95:6
501:3,14,17	208:20,21	360:7 381:24	374:9 375:15	95:21 96:14
502:2,13,18	209:22 210:4,4	392:5	383:15	98:9 99:22
509:8	244:6 254:24	weaknesses 80:3	whichever 21:13	101:22 103:21
Washington	324:22 328:4	164:21 283:21	white 270:9	104:15 105:1
3:18	328:18 366:13	308:2,11	wide 316:13	106:10 108:14
wasn't 25:17	400:24 401:1	390:11 391:18	386:12,15,19	109:9,17
31:24 36:3	403:4,7 418:10	392:21,22	387:2	113:24 116:23
58:21 80:17	436:4	470:10	widely 196:3	117:9 118:1,20
88:11 122:24	we're 16:11	web 306:3	262:16 263:3,4	119:7 121:13
125:11 144:22	37:16 43:15	website 9:22	263:5,8,24	122:8,18
197:1 227:21	65:20 66:24	283:10,11,23	265:4,8 282:1	124:13 125:11
245:1 260:8	76:20 77:8	302:16 303:10	287:6,16	126:2,6 127:11
261:13 288:14	84:18 98:10	306:4,15 497:3	wider 386:9	127:22 130:22
291:7 314:5	99:12 125:12	503:7,14,19	widespread	132:1 133:13
330:23 353:11	139:4 168:6	507:15	122:21 272:2,7	136:15 137:4
371:20 379:7	169:10 189:11	week 81:1,1	278:13 279:21	140:1 141:18
393:15 408:22	189:12 206:7	111:12,12	Wilson 462:1,10	142:5,18 143:5
409:10 412:24	206:10 209:21	143:17 345:1,3	462:18 463:18	146:8 147:13
434:18 465:5	243:1 270:17	345:4 368:2,2	wish 285:23	150:19 152:9
478:24 510:10	311:2 321:22	370:7 373:5,14	withdraw	153:10 155:4
waste 203:4	324:21 334:16	weeks 140:19	159:19 199:6	156:5,16
wasted 431:6	360:8 363:6,7	Wehner 134:12	358:7 384:18	157:19 159:3
watch 361:11	389:18 390:3	weigh 158:24	415:6	160:22 161:9
403:2 472:2	396:4 397:10	311:18	withdrawn	163:2,14,24
water 196:5	409:16 458:6,7	Weil 1:14 3:12	169:1,13	166:4,11,14
way 14:1 23:15	511:13 515:24	Weill 7:18 12:17	witness 10:5	168:16 170:18
25:8 39:12	we've 15:3 68:23	301:2,20,23	17:1,14 18:3	172:9,19 173:6
		l	I	

				Page 576
1-2464-46	240 22 270 24	l	l	
173:16 174:6	349:22 350:21	513:14 514:12	455:24	worry 361:3
175:23 176:11	355:14 356:22	514:18 515:22	women's 352:11	506:16
177:6,20 179:7	358:13 359:12	517:5,6,8	wonder 132:21	worth 382:10
185:4 191:1	360:18 362:12	518:1	166:24	worthwhile
192:5 193:14	364:14 365:1	Wolf 156:18	wondering	288:22 289:2
195:7 196:20	366:8 369:9	157:5	94:10	300:5 414:10
197:6 198:15	370:20 372:22	woman 243:18	word 16:19	wouldn't 36:4
203:15 207:3	375:22 377:9	352:17 389:7	24:21 119:12	132:22 173:9
208:9 211:7,17	379:22 381:9	389:16 439:14	171:6,18	177:11 219:20
213:7 215:11	383:1 385:8,21	456:5 498:16	179:11,13,14	226:8,12 236:9
216:8 218:6	386:8 387:17	woman's 174:3	183:7 255:10	330:6,13
219:12 221:23	388:8,16 391:9	338:18 438:1	309:11 335:9	386:24 388:13
223:6 230:12	393:9 394:10	438:15	406:16 425:4	401:4 402:17
231:6 232:21	394:16 395:17	women 28:23	433:19 477:4	412:19 439:8
234:18 235:9	397:17 398:5	29:8,13,17	508:5	439:18 495:17
235:15 237:17	399:21 400:5	30:8,15 31:15	wording 508:6	501:14,24
238:2,22	401:11 402:12	32:3,12 33:5	words 21:19	506:16 509:18
241:15 242:4	406:3 410:23	63:7 87:22	53:21 134:20	Wright 9:18
242:15 244:3	412:15,23	88:7,23 151:20	240:9 262:2	488:24 489:21
244:16 245:10	419:23 423:19	152:1 226:8,11	360:11 407:13	490:4
245:24 246:9	427:21 432:23	243:15 245:2	413:24 450:23	write 118:16
246:24 248:5	433:8 434:3,21	248:19 250:4	455:13 476:22	119:3 215:17
249:9,24	435:8 436:18	311:4 318:16	work 44:7,9	295:6 411:9
251:16 252:14	438:4 439:13	320:7,9 326:12	103:17 107:12	writing 77:20
253:4,23	440:13 441:13	330:16 338:2	112:2 113:1,8	118:22
254:11 257:14	442:2,12 447:6	339:9 340:13	113:12,16	written 22:24
257:23 260:2	448:5 451:7	340:18 341:6	140:12 141:5	118:8 426:15
262:10 265:7	452:23 453:14	345:18,23	142:8 153:23	426:18,19,21
267:10 268:15	454:23 458:15	351:19 356:6	154:1 288:7	426:23 488:23
273:2 276:4	458:19 460:5	364:2,4,10,12	300:23,24	wrong 83:11
277:20 278:18	462:7,15	364:15 365:5,6	301:1,12 389:2	157:22 158:1
279:4 282:13	464:22 469:4	365:24 368:15	389:3 391:2	205:14 217:2
286:18 288:2	470:17 472:10	368:20 369:4	460:17,18	275:23 309:13
289:1,23 291:6	476:1 477:22	369:18,23	461:17,17	322:16 386:19
295:19 296:4	478:21 480:7	370:2,6 373:4	490:18 504:6	426:6 427:11
296:24 299:2	481:4 482:20	373:7,22 382:9	504:22 515:3,8	wrote 185:8
300:20 302:3	484:21 485:6	383:16,23	worked 118:21	194:23 213:8
304:16 305:24	487:24 489:11	384:7,11,20,24	working 87:15	Wu 232:2,3
307:9 312:4,17	491:7,19 493:2	385:2,11,12,18	87:17 93:7	416:11,14,15
316:8,24	494:13 496:9	386:1,2 387:3	272:5 369:14	416:22,23,24
317:20 318:7	496:18 498:1	387:4,9,11,12	492:11	417:3,5,14,18
319:10 327:15	499:10 500:4	387:20 390:16	works 155:7	1 1 1
				417:19 418:4,5
330:9 331:13	500:15,23	390:23,24	502:23	418:15,18,19
333:3 338:8	501:10 504:18	391:3,10,20	world 69:8,9	X
340:22 341:10	506:23 508:1	397:3,8 404:2	483:8 494:10	$\overline{\mathbf{X}}$ 5:2,10 6:2 7:2
343:14 344:21	508:18 510:20	404:3,5 405:3	worried 204:23	8:2 9:2
346:7,18 349:7	512:5,24	439:3 443:19	513:19	0.2 7.2
		•		•

PageID: 193909 Kevin Holcomb, M.D.

				Page 5//
	204.0 12 205.2	140.2 (7.0.10	250.2	420.21.420.6
Y	384:8,12 385:2 387:20 389:6	148:3,6,7,8,18 148:21 150:12	358:2	429:21 430:6
yeah 24:13			100 5:23 234:2,4	503:11
35:17 72:10	404:23 448:15	186:4 190:18	235:5	1950s 30:10,17
73:3 83:17,22	451:2 461:5	192:9 204:11	100-C 71:10	31:18 32:5,15
114:5 126:6	466:15 467:12	219:6 240:3	100,300 113:14	306:22
127:16 129:10	467:20 472:21	269:13 281:1	102 6:6	1970s 30:11,18
133:13 141:19	472:22 474:11	328:5 347:19	103 5:20 64:22	31:18 32:16
186:16 193:4	474:18,19	461:14 491:14	103,000 114:6	1976 365:22
207:7 208:18	475:12,13	491:22 492:5	11 30:24 220:12	1982 240:9
219:20 229:22	years' 339:10	492:21 494:2,7	258:22 357:14	344:12 345:17
240:20,24	yeast 36:11,14	495:5 520:6	374:13,19	366:22 367:3
251:9 256:12	yesterday 81:8	1.02 353:18	375:6 428:16	1989 365:23
261:7 264:14	81:12 112:21	354:18 376:24	11:28 126:11	199 6:17
299:19 321:1	112:22	378:17	11:42 126:16	1996 48:4 432:3
328:12 329:22	York 1:14,15	1.06 207:16	110 6:7	1st 424:17 428:6
333:6 337:19	11:10,10 14:11	370:7	114 6:10	
340:14 349:12	301:6,17	1.09 348:4,22	116,430 366:2	2
377:4,9 385:15	younger 364:3	349:19	12 5:5 125:15	2 41:12 45:10,11
385:17 393:12	364:11,18	1.1 182:5	224:4 339:6	111:8 181:10
399:6 404:4	365:6 367:5	1.16 474:12,21	340:6,14 397:3	181:11,16,21
416:3 418:11		1.2 187:20	397:4 404:8,17	181:21 202:17
454:6 472:1,5	Z	245:11 318:2	12-risk 474:17	344:23 347:5,9
475:18 476:20	zero 198:22	1.22 408:14	121,700 365:24	347:9 350:3
499:16 507:16	202:21	1.24 244:12,22	13 147:20	384:20 386:23
510:12	Zervomanola	271:4 409:24	255:19 407:10	415:20 442:23
year 6:15 363:23	437:19	1.28 271:4	407:14 453:19	443:1 461:12
376:9 389:7	ZIP 107:6	1.3 245:7 318:2	14 45:17 248:20	2-A 415:18,19
488:21 489:6		1.31 271:4	349:11,12	416:5
489:22	0	1.35 370:9	350:2,8,13	2-B 491:22
vears 47:12	0.05 202:18	408:14	352:15 355:17	492:5 494:2
78:19 206:17	0.09 347:24	1.37 347:16	1416 275:13	495:5
228:23 229:2	0.84 370:8	348:23	1490 2:9	2.0 241:23
327:5,8 332:19	0.86 347:16	1.38 409:24	15 274:3 338:2	2/25/19 6:12
· · · · · · · · · · · · · · · · · · ·	348:23	1.4 182:5 245:7	351:6 352:17	2:04 239:20
332:20,21	000489048-54	353:18 354:17	155 3:4	20 125:8 187:21
333:8,14 336:5	9:7	354:21 373:17	16 134:8,9	245:15 325:4,5
337:24 338:2,4	02210 3:4	1.6 187:20	292:22	328:21 332:19
339:5,8 340:6	07932 3:9	245:12	16-2738 1:6	332:21 333:8
340:14 350:2,8	08542 3:13	1.6.5 83:15	17 3:13 302:13	337:24 338:3
350:13 351:6		1.9 347:15	18 334:1 446:11	339:5,10
352:15,17,19	1	1.91 353:19	180 6:13	363:18 376:11
355:17,20	1 6:15 39:19	354:18 376:24	183 113:20	384:8,12
356:1,6 361:16	40:7,21 74:16	378:17	184,000 113:20	429:20 430:13
364:17 368:15	82:5 96:6,11	1:07 239:16	186 6:15	520:20
368:16 369:2	96:17,24 97:5	10 45:16 111:9	19 2:4 64:23	20-fold 392:10
369:19 373:3,6	97:12 98:7	187:18 200:4	160:9 344:8	200 346:3
376:10,10,11	99:1,19 111:8			200,000 318:16
		332:20 338:2	428:18 429:20	=30,000 510.10
	•	•	•	•

				Page 578
210.20.205.22	417.10.10	407.2 406.11	226.5.266.1	400 0.17
318:20 385:23	417:18,19	407:2 486:11	336:5 366:1	488 9:17
386:1,2	418:4,19 462:2	231 334:4,6,16	369:2 496:24	49 224:11,13 496 9:19
2000 344:2	463:18	232 82:13,17,18	518:16	496 9:19
358:10 359:20	2016 180:14	83:5 84:16	302 7:21	5
363:24 411:18	232:4,7 249:4	233 4:3	31 503:6	5 102:12,18
440:24 462:18 20004 3:18	254:15 255:8 259:8 260:6	24 214:20 339:8 355:20 356:1	312 4:5 33 116:13 275:8	146:19,23
20004 3:18 2002 69:24		397:3 407:22	443:17	147:17 229:18
	275:3 329:11	25 49:14 104:12	334 2:15	229:21 424:23
2003 333:13 334:2	338:24 446:20 2017 38:6	108:5 115:3	338-1100 2:10	425:2,2
	2017 38:0 2018 6:20 38:9	116:13 124:6	344 8:6	5/7/18 5:15,17
2007 135:2,4	40:22 43:6			5:20
139:13 465:22	45:14 64:20	124:19 125:3 147:2 366:3	356 87:5,8 358 271:15	5:01 421:16
2008 373:9,15 2009 139:13	142:15 143:12	424:15	36104 2:14	5:22 421:21
232:3,4,6,7	145:17 146:2	250 214:19	363 8:9	5:49 453:10,13
416:24,24	224:3 259:11	250 214.19 251 350:15	37 349:13	50 248:24 249:6
417:5 418:6,15	259:12 360:3	351:1,12	37 349.13 377 8:12	340:13 341:24
418:18,20	420:13 432:14	255 7:6	3// 0.12	367:24
201 3:13	442:23 454:11	256 87:10 93:5	4	50/50 150:8,10
201 3.13 2010 48:3,4	2019 1:10 11:7	25th 51:18	4 45:19 71:9	236:2,2,3
220:12 224:15	49:14 104:12	110:10 111:15	367:22 384:19	273:18 392:18
228:20 247:21	108:5 111:16	26 368:16	425:2	479:18
357:14 358:4	115:3 124:6,7	468:12,14	4/1/14 9:6	501 2:8
359:18 362:8	124:19,20	269-2343 2:15	4:00 348:16	503 9:22
363:13,19,20	125:3 139:20	27 1:10 11:6	40 5:14 206:17	50s 32:21
364:3,11	147:2,20 151:4	311:16 471:12	333:8,14 336:5	521 520:6
367:13 368:14	200:8 432:17	271 7:9	337:24 338:4	549-7000 3:9
379:7,16 382:4	433:2 434:13	273 7:12	369:2 376:23	55 338:19 366:1
411:23 412:10	486:11 491:21	28 258:23 259:3	378:16	56 5:15 41:11
413:20 419:12	503:11 517:15	261:5 517:15	40,000 506:12	57 5:18 45:16
491:21 492:19	202 3:19	281 7:16	403 8:14	
2012 48:5 69:17	20s 339:1 340:11	29 488:9	406 8:17	6
70:4,10 71:9	21 200:8 378:1,2	292 7:18	407 8:20	6 110:8 121:8
83:14 86:15	420:10 428:18		41,000 318:19	146:12,20
95:3,19 96:7	430:6,13	3	404:3	6.2 420:10
2013 379:5	218 2:14	3 64:12 103:16	41,654 404:2	6.4 258:24
454:15	219 72:4,9,13,15	147:6,14,18	42 248:19 366:3	6.6 404:23
2014 254:18,19	72:21 74:5	229:18,21	424 9:6	6:03 473:10
264:24 265:4,9	76:23 82:5	471:19,21,24	43 416:17	6:04 473:24
276:12,12,13	85:12	472:12 474:3	439-2286 3:5	6:13 486:2
277:22 278:15	21st 200:7	475:15,19	45 5:16	6:36 486:7
279:6,22 280:6	22 126:18 127:4	3:28 343:19	46 415:15,20,22	6:59 516:5,8
377:20 424:17	403:20	3:55 343:23	463-2400 3:19	60 187:21
428:6	220 6:19	3:59 348:12	464 256:4	245:15
2015 232:2,6	224 6:21	30 25:10,11,21	468 9:8	60,000 506:11
303:5 416:11	23 140:9 141:8,9	55:11 328:22	471 9:13	600 3:8 404:3
416:23 417:4	141:21 334:4	332:20 333:14	486 9:15	60606 4:4
	<u> </u>	<u> </u>	<u> </u>	

			Page 579
609 3:14	9		
60s 30:10,17	9 111:8 186:5		
31:18 32:5,15	269:20 274:4		
32:21	274:10		
61 44:16 45:18			
46:24 47:17	9:53 1:15 11:7		
106:6 116:15	90 59:23 60:4		
61,000 318:18	354:4 371:2		
375:16 387:11	917.591.5672		
61,576 383:16	1:20		
617 3:5	92101 2:9		
619 2:10	92660 2:4		
624-6307 4:5	949 2:5		
64 5:19	95 112:1 149:23		
68 385:4,16	187:4,4 193:21		
386:3 387:12	193:23 194:8		
387:21	196:13,22		
	197:14 202:5		
69 229:19,21 6950 4:4	205:20 371:3		
09504:4	372:8 378:16		
7	973 3:9		
7 45:14 64:20,23	975 3:18		
115:1	986-1118 3:14		
70 25:5,9 444:18	99 290:14		
70,000 506:11	318:21 329:2		
70s 32:6	440:24		
71 5:21			
720-1288 2:5			
767 1:14 11:9			
78,000 318:18			
78,630 345:23			
791 217:3			
7 1 217.3 7 th 40:22			
/ til 40.22			
8			
8 41:12 111:8			
180:9 281:1			
80,750 112:7			
114:9			
800 201:9			
203:12 214:20			
800-some 218:3			
850 60:9 112:4			
86 378:20			
877.370.3377			
1:20			
89 354:3			
	I	l l	